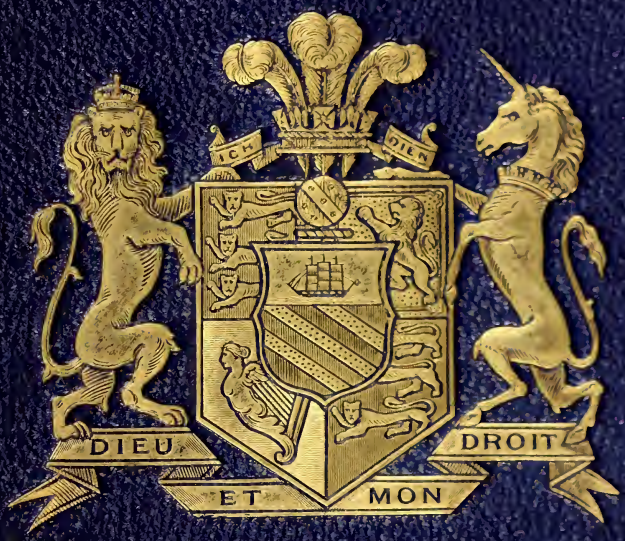
Royal Jubilee Exhibition



Manchester. 1887.

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With the Compliments of the
Executive Committee
Joseph C. Hey
Chairman
Mr. Agnew Thurman Jr. acl
Secretary.

ROYAL JUBILEE EXHIBITION,

MANCHESTER,

1887.

OFFICIAL CATALOGUE.

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JOHN HEYWOOD,
OFFICIAL PRINTER TO THE ROYAL JUBILEE EXHIBITION,
MANCHESTER.

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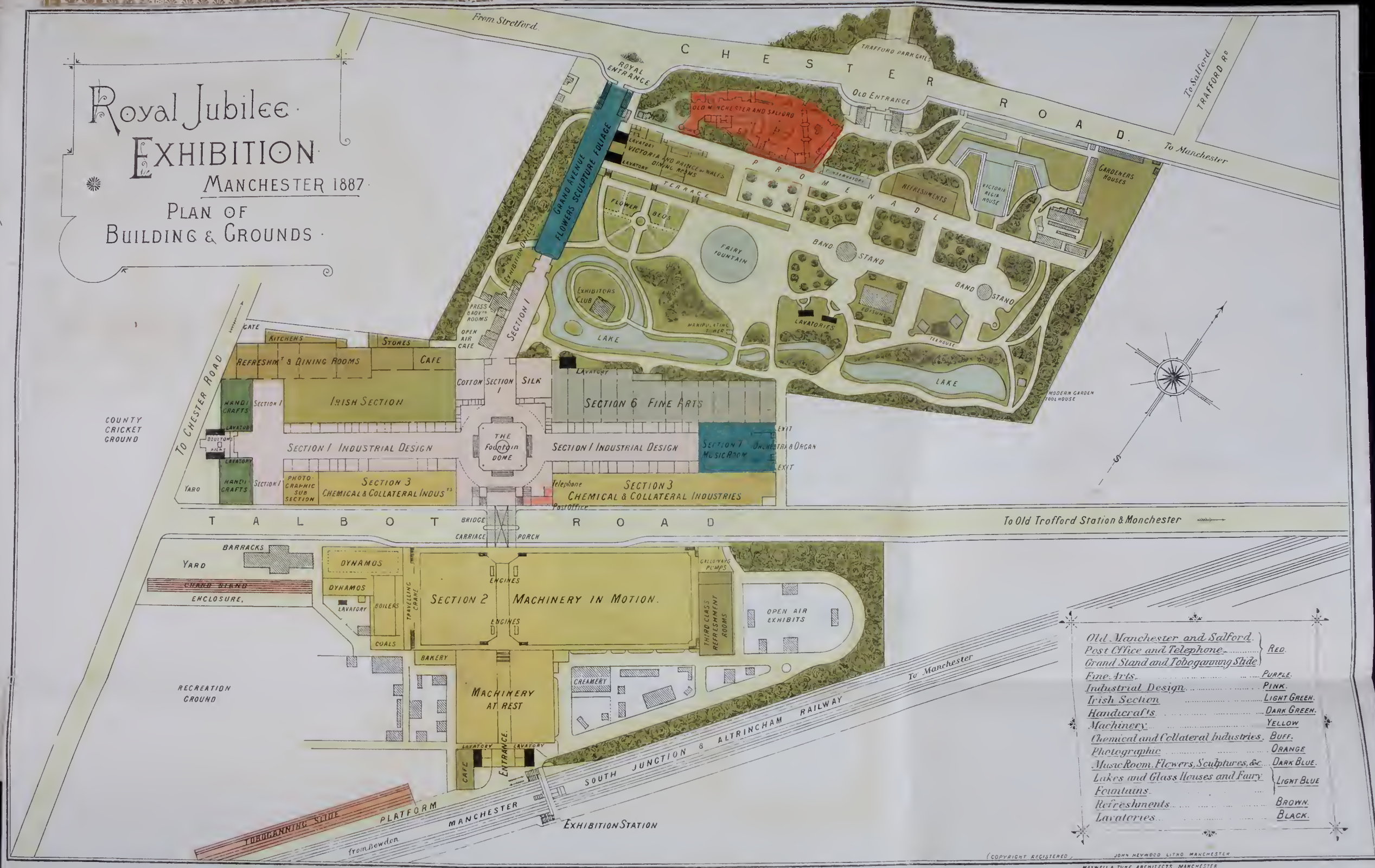
Royal Jubilee Exhibition

Manchester 1887

Plan of Building & Grounds



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BOARD OF TRADE CERTIFICATE.

(Copy.)

BOARD OF TRADE

R 5677 (RAILWAY DEPARTMENT),

LONDON, S.W., 27TH NOVEMBER, 1886.

SIR,

I am directed by the Board of Trade to acknowledge the receipt of your letter of the 26th inst., and in reply, to transmit to you herewith a certificate of this Board under the provisions of the Patents, Designs, and Trade Marks Act, 1883, in respect of the Royal Jubilee Exhibition proposed to be held next year at Manchester.

I am at the same time to enclose copy of Sections 39 and 57 of the Patents, &c., Act, and to draw attention to the steps that will have to be taken by intending exhibitors who wish to avail themselves of the protection afforded by those sections of the Act.

I am, Sir,

Your obedient Servant,

(Signed) COURTENAY BOYLE.

SAMUEL LEE BAPTY, ESQ.,
ALBERT CHAMBERS,
ALBERT SQUARE, MANCHESTER.

(Copy.)

BOARD OF TRADE

R 5677. (RAILWAY DEPARTMENT),

LONDON, S.W.

PATENTS, DESIGNS, AND TRADE MARKS ACT, 1883.

Upon the application of Samuel Lee Bapty, Albert Chambers, Albert Square, Manchester, made to the Board of Trade on the 26th day of November, 1886, the Board of Trade do hereby certify that the Royal Jubilee Exhibition, proposed to be held in the year 1887, at Old Trafford, Manchester, in the County of Lancaster, is an International Exhibition.

Signed by order of the Board of Trade, this 27th day of November, 1886.

COURTENAY BOYLE,
ASSISTANT SECRETARY,
BOARD OF TRADE.

AN ACT to Amend and Consolidate the Law relating to Patents for Inventions, Registration of Designs, and of Trade Marks.

* * * * * * * * * * * * * *

PART II.—PATENTS.

Exhibition at Industrial or International Exhibition not to prejudice patent rights.

39. The exhibition of an invention at an industrial or international exhibition, certified as such by the Board of Trade, or the publication of any description of the invention during the period of the holding of the exhibition, or the use of the invention for the purpose of the exhibition in the place where the exhibition is held, or the use of the invention during the period of the holding of the exhibition by any person elsewhere without the privity or consent of the inventor, shall not prejudice the right of the inventor or his legal personal representative to apply for and obtain provisional protection and a patent in respect of the invention or the validity of any patent granted on the application, provided that both the following conditions are complied with, namely :—

(*a*) The Exhibitor must, before exhibiting the invention, give the comptroller the prescribed notice of his intention to do so ; and

(*b*) The application for a patent must be made before or within six months from the date of opening of the exhibition.

* * * * * * * * * * * * * *

PART III.—DESIGNS.

Exhibition at Industrial or International Exhibition not to prevent or invalidate Registration.

57. The exhibition, at an industrial or international exhibition, certified as such by the Board of Trade, or the exhibition elsewhere during the period of the holding of the exhibition, without the privity or consent of the proprietor, of a design, or of any article to which a design is applied, or the publication, during the holding of any such exhibition, of a description of a design, shall not prevent the design from being registered or invalidate the registration thereof, provided that both the following conditions are complied with, namely :—

(*a*) The Exhibitor must, before exhibiting the design or article, or publishing a description of the design, give the comptroller the prescribed notice of his intention to do so ; and

(*b*) The application for registration must be made before or within six months from the date of the opening of the exhibition.

RULES

Relating to Applications for Patents for Inventions and Proceeedings Thereon and Registration of Patents.

Industrial or International Exhibitions.

17. Any person desirous of exhibiting an invention at an industrial or international exhibition, or of publishing any description of the invention during the period of the holding of the exhibition, or of using the invention for the purpose of the exhibition in the place where the exhibition is held, shall, after a certificate has been obtained from the Board of Trade that the exhibition is an industrial or international one, give to the Comptroller seven days' notice of his intention to exhibit, publish, or use the invention, as the case may be.

For the purpose of identifying the invention in the event of an application for a patent being subsequently made, the applicant shall furnish to the Comptroller a brief description of his invention, accompanied, if necessary, by drawings, and such other information as the Comptroller may in each case require.

Relating to the Registration of Designs.

Notice of Exhibition.

36. Any person desirous of exhibiting a design, or any article to which a design has been applied, at any industrial or international exhibition, or of publishing a description of a design during the period of the holding of the Exhibition, shall, after a certificate has been obtained from the Board of Trade that the exhibition is an industrial or international one, give to the Comptroller seven days' notice in writing of his intention to exhibit the design or article, or to publish a description of the design, as the case may be.

For the purpose of identifying the design, in the event of an application to register the same being subsequently made, the applicant shall furnish to the Comptroller a brief description of the nature of the design, accompanied by a sketch or drawing thereof, and such other information as the Comptroller may in each case require.

REGULATIONS FOR EXHIBITORS.

Object.

1.—An Exhibition intended to illustrate the progress and development of Arts and Manufactures during the Victoria era, in celebration of the Queen's Jubilee, will be held in Manchester in 1887.

Title.

2.—The Title will be the "Royal Jubilee Exhibition, Manchester, 1887."

Date of Opening.

3.—The Exhibition will be opened early in May, 1887, and will continue open about six months.

Applications for Space.

4.—Applications for space must be made on the official printed forms, which will be supplied on application to the General Manager, Royal Jubilee Exhibition Offices, Albert Square, Manchester. All particulars must be filled in and the form returned on or before the 1st November, 1886. The Executive Committee will make arrangements to supply belt power, steam, water, gas, or electricity, at the expense of those Exhibitors who make application for it, and they will be charged in proportion to the power used. Preference will be given in all cases where the applicant is the Inventor, Manufacturer, or Producer of the intended Exhibit.

Charge for Space.

5.—The general charge for space will be 2/6 per square foot, the minimum charge being £2 10s., payable on allotment. The Executive Committee reserve to themselves the power to modify or remit these charges under exceptional circumstances.

Date for Receiving Goods.

6.—No Exhibits will be received before the 15th March, 1887, except by special permission, and all goods must be delivered before the 15th April, and be in order by the 25th April, 1887, under penalty of forfeiture of the deposit and space allotted.

Applicants to be Exhibitors. Sub-letting prohibited.

7.—All Exhibits must be in the name of the person making the application for space, and no Exhibitor will, under any circumstances, be allowed to sub-let or divide any space which may be allotted to him.

All Exhibits to be described in application.

Right reserved to Refuse or Remove any Article.

8.—No article which has not been clearly described in the application form will be allowed in the Exhibition without the permission, in writing, of the General Manager, and the Executive Committee reserves the right to refuse or remove from the Exhibition, at any time, any article which may be deemed unsuitable or objectionable, without assigning a reason; and, if necessary, to return any money paid for space, which shall exonerate them from any claim whatsoever on the part of the Exhibitor of the articles so refused or removed.

Empty Cases.

9.—All cases must be unpacked immediately on arrival, and empty cases removed from the Exhibition by and at the expense of Exhibitors.

Exhibitors to bear all Expenses.

10.—Exhibitors will have to bear all expenses of conveying, delivery, arranging, fixing, and removing their Exhibits, and also the cost of erection of all fixtures, screens, and counters, when required.

Exhibitors personally to undertake installation and removal of Goods. Right reserved to complete in case of default.

11.—Exhibitors must personally, or by a duly-appointed agent, undertake the reception, unpacking, installation, and (at the close of the Exhibition) the removal of their goods. The Executive Committee reserve to themselves the right of doing whatever may be considered necessary, at the expense of the Exhibitor, should this regulation be neglected.

Marks on Packages.

12.—All packages containing goods intended for Exhibition must bear the distinctive mark J.F.M together with the name and address of the Exhibitor, and the number of his stand.

Erection of Stands.

13.—Exhibitors may erect stands or such other contrivances as may be necessary for the proper display of their goods, which may not, however, without special permission of the Executive Committee, exceed eight feet in height from the floor, so that they do not obstruct the view through the avenues, or in any way injuriously affect other Exhibitors. Should this rule be contravened, the Executive Committee may at any time cause the removal or alteration of the objectionable fittings.

No Offices allowed.

14.—Offices will not be allowed except by permission of the Executive Committee, and no partitions or screens will be allowed in central places.

Decorations and Stand Coverings.

15.—All flags, banners, or other decorations will be entirely subject to the approval of the Executive Committee ; and all stands, screens, counters, &c., must be covered with a material or paint, the colour of which will be selected by the Executive Committee.

Signs.

*16.—Signs or name boards, which must be new, must be placed parallel with the main avenues, and in no case interfere with the lighting. They must be black with gold letters, and their size and position subject to the approval af the Executive Committee, and in accordance with special rules.

Distribution Display of Handbills, &c.

17.—All handbills, printed matter, or advertisements of any kind, intended for distribution or display, must be subject to the approval and permission of the Executive Committee, which permission may be withdrawn at any time.

Floor must not be altered without permission.

18.—The flooring must not be altered, removed, or strengthened, except by permission of the Executive Committee, and at the expense of the Exhibitor.

Stands to be kept clean.

Solicitation of Orders prohibited.

19.—Exhibitors will be required to keep their stands clean and in good order, and will be permitted to employ attendants for this purpose, and to explain their Exhibits. Such persons may receive orders, but shall not solicit them to the annoyance of the public or other Exhibitors, and any Exhibitor or Assistant so doing may be expelled from the building, and have his ticket cancelled.

Sale and Removal of Exhibits.

20.—Exhibits which are manufactured within the Exhibition may be sold and removed, but no Exhibit will be allowed to be removed from the Exhibition without the written permission of the General Manager.

Executive Committee not responsible for loss or damage.

21.—The Executive Committee will not be responsible for the loss of, damage to, or safety of any Exhibit, empty cases, tools, or other property of an Exhibitor or any other person, under any circumstances whatever ; and Exhibitors will be required to effect their own insurances against fire.

All Exhibits subject to lien for charges.

22.—All Exhibits shall be subject to a lien for any amounts which may be due to the Executive Committee or any of their duly-appointed contractors.

* This regulation has been altered in accordance with Rule 33, all signs or name boards are made subject to the conditions in letter of allotment.

Dangerous substances excluded. Certain Exhibits subject to special rules.

23.—All fulminating, explosive, or other dangerous substances ar absolutely excluded ; and any steam whistle, fog horn, or other article which may be deemed in any way objectionable, will be accepted only subject to such special rules as may be made.

Right reserved to analyse or test any Exhibit.

24.—The Executive Committee reserve to themselves the right of examining, testing, or analysing any of the Exhibits, for such objects as they may think fit.

Exhibitors causing damage to indemnify Executive Committee from any claim.

25—If any damage or injury shall be caused or occasioned during the Exhibition by any Exhibit, machine, conveyance, tool, ladder, or other appliance, to any person or thing whatsoever, the Exhibitor to whom such belongs, or who may be using the same, either by himself or others, shall indemnify the Executive Committee, and hold them harmless against any action, suit, expenses, or claim, on account or in respect of any such damage or injury which may be so caused or occasioned.

Tickets for Exhibitors and Attendants.

26.—One ticket for the Exhibition will be granted to each Exhibit r or Firm, and for a reasonable number of attendants. If used by any but those to whom they are issued, or in case of misconduct or breach of these regulations by the holders, the tickets will be immediately cancelled.

Technical Juries

*27.—Should the Exhibitors in any Class require to have the relative merits of their several Exhibits decided, the Executive Committee will, upon a requisition being made to that effect, appoint a Technical Jury, for such purpose, whose judgment shall be absolutely final and conclusive.

Right to Photograph, &c.

28.—No article exhibited may be photographed, copied, drawn, or reproduced in any way, without the permission of the Executive Committee.

Catalogue.

29.—The Executive Committee reserve to themselves the sole right of compiling and publishing a Catalogue of Exhibits.

Foreign Applicants

30.—Applicants for space from Foreign Countries and the Colonies must appoint representatives in England to act on their behalf.

Fine Arts.

31.—Fine Arts—Exhibits in this Section will be strictly limited to works of art, viz., Paintings in Oil and Water Colour, Sculpture, Engraving, Etching, Lithography, Photography, and Wood Engravings produced in the United Kingdom during the reign of Her Majesty the Queen. Intending Exhibitors in this Section must make special application, under cover, to the Chairman, Fine Arts Committee.

Contravention of Rules.

32.—The Executive Committee reserve the right to remove the goods of any Exhibitor who may contravene any of these rules.

Right to alter Rules.

33.—The right to alter, amend, add to, or expunge any of these regulations is reserved by the Executive Committee, and all who become Exhibitors shall be deemed to have signified by so doing their acceptance of and agreement with the whole of these regulations, and such others as the Executive Committee may from time to time frame.

* Note.—Regulation No. 27 has been rescinded by the Executive Committee, in ccordance with Rule 33. No Medals or Awards will be granted.—January 1887

ROYAL JUBILEE EXHIBITION, MANCHESTER, 1887.

GUARANTORS.

William Abercrombie
*Daniel Adamson
R. Affleck
Charles James Agate
*Charles S Agnew
*Thomas Agnew & Sons
William Agnew
Thomas Aitken
B. Alexander
Councillor Andrews
Sir Elkanah Armitage & Sons
*V. K. Armitage
*Thomas Ashton & Sons
Thomas Armstrong and Bros.
E. Ashworth
John H. Bacon
John Bacon & Co.
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A. P. Baker
C. L. Baker & Co.
Henry Bannister
John B. Barber
Robert Barclay
Barlow & Jones, Limited
Edwin Barton
W. B. Bateman
William Batty & Son
Beaty Brothers
James R. Beard
Beith, Stevenson & Co.
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Carter Bell
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*Lawrence Booth
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Joseph Bowker
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John Craven
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JOHN PLATT.
WATSON SMITH.
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INTRODUCTION.

ORIGIN AND INCEPTION OF THE EXHIBITION.

The first public step towards the promotion of the Manchester Royal Jubilee Exhibition was a meeting of the citizens, held in the Town Hall on June 11, 1886, when a resolution was unanimously passed affirming the desirability of commemorating the Jubilee Year of the Queen's reign by holding "a National Exhibition of Arts, Science, and Industry." Practical effect was at once given to this resolution by the appointment of a large and representative Committee, which, within the space of four months, had arranged all necessary preliminaries for the commencement of the Exhibition. A guarantee fund of £133,331 was raised; a site at Old Trafford, adjoining the Botanical Gardens, was selected; the plans of Messrs. Maxwell and Tuke architects, were adopted; and a contract for the execution of the buildings was signed with Messrs. Robert Neill and Sons.

From the time of its commencement the work went on smoothly and rapidly, and in their efforts to get the Exhibition really complete and ready for opening by the date originally fixed, the Committee were zealously assisted by all who were in any way concerned in the execution of the scheme. Of the success of those efforts the public must be the final arbiters, and the Committee have every confidence in anticipating a favourable verdict.

Numerous applications for space for exhibits were received very soon after the holding of the Exhibition had been definitely fixed; and by the time when the Committee was ready to consider the applications, it was found that far more space had been applied for than could by any possibility be allotted. It was absolutely necessary, therefore, to make a selection of them, and in doing this the Committee acted on the principle of choosing not only those exhibits which were, in its opinion, the best, but also those which would most thoroughly and successfully carry out the idea and object of the Exhibition, and render it most varied and most comprehensive, as well as most attractive. As a result of this necessity of selection, forced as it was upon the Committee by the limitation of the space at its disposal and by the enormous number of the applications, many exhibits had to be declined which were of great merit, and which were intrinsically equal to those which were accepted. Intending exhibitors, therefore, who failed to secure acceptance of their applications, may

console themselves with the knowledge that their failure was not due to any demerits in their productions, but solely to the exigencies of the the space at disposal of the Committee.

OBJECT AND SCOPE OF THE EXHIBITION.

The general object and scope of the Exhibition is best described in the Prospectus as follows :—

"The object of the Exhibition will be to illustrate, as fully as possible, the progress made in the development of Arts and Manufactures during the Victorian era, principally under the following sectional headings :—

1. Industrial Design, as shown in Textile Fabrics, Pottery, Glass, Metal, Wood, Marble, and Stone Work, and all useful Articles having a decorative or ornamental design.
2. Machinery in Motion, and general Engineering Plant and Appliances.
3. Chemical and allied Industries.
4. Handicraft Work in process of production.
5. Works Committee ; and Representation of Old Manchester and Salford ; Model of the Ship Canal, &c.
6. Fine Arts—limited to Works of Art produced in the United Kingdom during the reign of Her Majesty the Queen.
7. Electric Light, Music, Horticulture, &c."

Of these sectional headings we will speak presently ; but before doing so we would point out the vastness and completeness of the Exhibition as a whole. Nothing, perhaps, will illustrate this more strikingly than a comparison of the size and area of other recent Exhibitions with those of the Royal Jubilee Exhibition, 1887. In 1886 there were three great Exhibitions—in London, in Liverpool, and in Edinburgh. The total area covered by these was 22, 35, and 16 acres respectively, while the area covered by the buildings alone was 10, 9, and 6 respectively. In the present Exhibition the total area is 45 acres, while the buildings area is 14 acres. Still more striking is the comparison of the area assigned to Machinery in these four Exhibitions ; for while in London it was 25,000 square feet, in Liverpool 45,000 square feet, and in Edinburgh 17,000 square feet, in Manchester the space allotted to machinery covers no less than 135,000 square feet, or half as much again as the other three put together. In other respects, and notably in its completeness of plan and symmetry of arrangement, in its architectural features, in its artistic decoration, in its perfect collection of pictures and sculpture, and in its provision for the comfort and enjoyment of visitors, the Manchester Exhibition will compare favourably with all its predecessors.

SECTIONAL HEADINGS.

It is impossible, in a general introduction like this, to deal fully and minutely with the various Sections into which the Exhibition is divided—and the full and complete Catalogues which are published render any such detailed treatment unnecessary—but a few words may with advantage be devoted to each Section by way of preface to the Official Catalogue of Exhibits.

INDUSTRIAL DESIGN.

An appropriate motto for this Section would be the well-known line of Horace: "*Omne tulit punctum qui miscuit utile dulci;*" for its object is to illustrate the great advance made during the last 50 years in what are known as the "Applied Arts." In every kind of manufacture in the present day art work and decorative design play a far more important part than they played a few years ago, and the neglect of this element is a fatal bar to competition. The result is that beauty of form and colour is in countless ways presented to us in an ever-increasing degree, not only through its proper and special medium of the Fine Arts, but in our houses, our furniture, our dresses, and in a vast number of things, which were summarily classed by our forefathers as "useful articles." We are getting so accustomed to this that we can scarcely realise how great the change has been in degree as well as in kind. But the splendid collection of exhibits in this Section brings it clearly and succinctly and comprehensively before us. Textile fabrics, pottery, glass, metal, wood, marble, and stone work are all grouped and arranged on this principle of exhibiting in their workmanship originality of design, grace of form, and beauty of colour, as well as perfection in execution. An enumeration of even the various classes which are included in this extensive Section is impossible here; but we may point out that it separates itself into four main divisions, viz., (1) Loan Collection of Textiles and Fabrics, Ancient and Modern; (2) Original Designs for Textiles, Pottery, Metal Work, Furniture, &c.; (3) Objects of Industrial Design; and (4) Artisans' and Women's Industries, such as Fan Painting, Embroidery, Wood and Stone Carving, and the like.

SILK INDUSTRY.

Among the textile fabrics Silk holds so important a place that the Committee decided to make it a Sub-section by itself; and to judge by the excellence of the department they were fully justified in doing so, for we have here a complete and most interesting panorama of the silk industry, from the eggs, larvæ, and moths of the various kinds of silkworm, through the

various processes of reeling, throwing, spinning, and dyeing, up to the manufactured fabric in all its varied forms. It includes also specimens of the silk fabrics of all countries, one or two looms in operation, and—what will probably prove one of the most attractive features of the Exhibition—Indian artisans at work on one of their native looms.

MACHINERY IN MOTION AND SILENT, ENGINEERING, &c.

We have already referred to the unprecedently large area devoted to this Section. This was only to be expected in an Exhibition which has for its principal object the illustration of progress made in the scientific development of Arts and Manufactures during the last fifty years, seeing that that progress is almost entirely due to the development and improvement of machinery applied to manufactures. Still more was it to be expected in an Exhibition held in Manchester—in which town, and in the surrounding district, more than anywhere else in the world, the influence of machinery has been conspicuous. It was, therefore, a happy thought which led the Committee to exhibit models of old and out-of-date machines side by side with the marvellous creations of engineering and mechanical skill and ingenuity which have done so much to revolutionise the trade and manufactures of this district, and to give to it the pre-eminence which it enjoys in all the markets of the world. Steam and Electricity are the two great material forces of modern times, on the utilisation and application of which have depended in the past, and will depend in a still greater degree in the future, our comfort and our prosperity. There can, therefore, be nothing more interesting than to see the various ways in which these giants are constrained and guided by the intellect of man to work for him and to achieve results for him which, without their aid, would be impossible and even inconceivable. It is this interesting—we may almost say, entrancing—spectacle which is supplied in the Machinery and Engineering Section with a completeness and perfection of detail which far surpass anything of the kind heretofore attempted.

CHEMICAL AND ALLIED INDUSTRIES.

In this Section we have an illustration of the practical value of Science which ought to satisfy the sternest advocate of the doctrine of utilitarianism. It was the boast of Socrates that he had brought Philosophy down from heaven to dwell among men; and here we have a proof that Science has left the closet

and the laboratory to do good and useful work in the factory and the mill. To the majority of visitors it will be a revelation to see how closely the science of Chemistry touches and affects our greatest industries, and especially what a prominent part it plays in their decorative side, by supplying colours and pigments of infinite variety. Its influence on Hygiene is better known, though perhaps not much better understood, and the exhibits which illustrate this influence will certainly be of wide interest. Metallurgy and Electro-Chemistry are also included in this Section, and some of the exhibits cannot fail to suggest that the efforts of the old alchemists to produce a transmutation of metals by chemical processes were not such wild and absurd dreams as they are generally supposed to have been.

PHOTOGRAPHY.

Connected with the last Section, but treated as a Special Sub-section, is Photography, to which this honour is appropriately assigned, inasmuch as it is essentially a product of the Victorian era, the whole of its history being comprised within that period. The Section is designed to illustrate that history by examples of photographs, and also to show the many industrial, as well as artistic and scientific purposes to which Photography is now applied.

HANDICRAFTS IN OPERATION.

Though machinery has to so large an extent revolutionised manufacturing that the very name is now almost a misnomer, yet there is still room for the "work of a man's hands," and a Section has been accordingly assigned to handicrafts in operation. The selection of these has been guided chiefly by a consideration of the amount of ingenuity and manual skill exhibited in their operation, and they include textile fabrics and clothing, turning, engraving, carving, embossing, and moulding, metal work, instrument-making, and sundry other handicrafts which do not admit of classification under any of the above heads. All these are practical illustrations of various methods in which men and women may earn a livelihood by work done in their own homes, and for the most part without the aid of steam and machinery. Some of these are exhibited in the main building of the Exhibition ; but a home for the majority has been appropriately found in the reproduction of streets and buildings in

OLD MANCHESTER AND SALFORD.

For a complete description of this most interesting and delightful section we must refer visitors to the special "Guide," and content ourselves here with a

very general statement of its contents. Its object is to reproduce fac-similes of old historic buildings in Manchester and Salford, and to present to the nineteenth century a living and faithful picture of the streets through which our forefathers walked, of the houses in which they dwelt, of the shops and market-places in which they transacted business, and of the churches in which they worshipped, and beneath the shadows of which many of them now sleep. Starting with the old Roman Colony planted at Mancunium, we pass through a fortified gateway built by the Roman legions, up a steep incline, into a narrow street, the houses on either side of which nearly meet in their upper stories, while their ground floors are occupied with shops and stalls which are known to have been situated in the Market Street of Old Manchester. Thence we wander through the Market Sted, past the old Exchange and Smithy Door, to Old Salford Bridge, on one end of which is erected an ancient chapel, while at the further end stands the tower of the Old Church, now the Cathedral, from which peals a carillon of beautiful bells. Old Ancoats Hall and many another interesting old building may be seen by the visitor who deviates from the main path by which we have led him into the winding and tortuous by-streets included in the Section; but we have not space for specific mention of them, and must pass on beyond the Bridge to Chetham's College, with its old gateway, through which we emerge into the gardens.

MUSIC, ELECTRIC LIGHTING, HORTICULTURE, &c.

Wisely recognising the necessity of catering for the popular taste, as well as that of supplying instruction and the more solid attraction of mechanical, industrial, and other exhibits, the Committee created this department into a Special Section, and a variety of attractions will be supplied, which may be roughly grouped under one or other of the above headings.

The Great Organ, specially built by Messrs. Bishop & Co., of London—which is placed at the eastern end of the long nave—and a band of sixty performers will supply the chief permanent attractions in the way of music. To these will be added frequent performances by the best bands both in England and the Continent, and by occasional instrumental and vocal concerts.

The whole Exhibition is lighted by electricity, and the charming effects which can be produced by this wonderful discovery are exquisitely illustrated every evening after dusk by the "Fairy Fountain" in the Gardens. The lighting of the Palmhouse Dining-room by glow-worm lamps interspersed among the foliage of the trees and shrubs, and the moonlight effects in the streets of Old Manchester and Salford, are also highly attractive features, and will make the Exhibition a very popular evening resort.

The acquisition of the Botanical Gardens supplies the element of outdoor attractiveness which is so essential to the success of any Exhibition; and they have been laid out and arranged with the utmost picturesqueness. The same taste and skill is conspicuous in the disposition of the flowers and shrubs on either side of the Great Avenue, the effect of which is so entrancing that it almosts tempts the incoming visitor to remain where Nature's work is so exquisitely displayed, instead of proceeding further to the inspection of the triumphs of man's art and science.

Ample provision has been made by the Committee for the comfort of visitors in the way of dinners, refreshments, &c. In addition to the large Dining-room in the Palmhouse of the Botanical Gardens, to the lighting of which we have just referred, there are Dining-rooms, Refreshment-rooms, and Cafés in both the main buildings, one adjoining the Irish Section and the other in the grounds outside the Machinery Annexe. In this very important and essential feature the Exhibition fully maintains its high standard of excellence, and visitors have no cause to fear that their enjoyment will be marred by the neglect or carelessness which too often renders this department in Exhibitions very unsatisfactory.

IRISH SECTION.

It was a peculiarly happy impulse which prompted the Exhibition Committee and the Dublin Committee to assign a special Section to the exhibition of the products of Irish Industries and Manufactures. Apart from the concentration of public attention on Ireland, due to political considerations, it is specially appropriate that in a Lancashire Exhibition prominence should be given to productions of that country, because of the intimate commercial relations subsisting between this country and Ireland. The principal English ports at which Irish productions are landed are in Lancashire, and probably no other single English town buys so much from Ireland in the way of meat, butter, and eggs, as Manchester. Moreover, the repressive and protective legislation of the last century, which did so much to restrict and ruin Irish trade and manufactures, was directly instigated by the jealousy of Lancashire merchants, manufacturers, and shippers; and it may be hoped that some compensation for this injury will be made by the unique opportunity thus afforded to Ireland of exhibiting in a collected and comprehensive form her chief industrial products. Visitors who do not know the country, and many of whom may be prejudiced against it through that lack of knowledge, will be astonished to see the number and quality of the exhibits in this Section, which cannot fail to attract to itself special attention and interest.

FINE ARTS.

If the Victorian era is remarkable for the unprecedented development of British Trade and Manufactures, it is no less distinguished by the advance made in the Fine Arts. Great as are the names of the artists of former days, the period which can boast of Turner, Wilkie, Stanfield, Mulready, Leslie Müller, Landseer, De Wint, Cox, Prout, Hunt, and Copley Fielding among painters, and of Chantrey, Foley, and Gibson among sculptors, not to name those illustrious artists who are still living, and amongst whom it would, therefore, be invidious to make a selection for special mention, need not fear comparison with any other period. The collection here brought together includes the best works of any artist of Great Britain and Ireland who has lived and worked at any time during the last fifty years, and in this limitation of time to the Victorian era the collection is absolutely unique. Of the merits of the paintings, sculptures, engravings, etchings, and woodcuts included in it, it would be impertinent, as it is superfluous, to speak. The arrangement of the thirteen large galleries into which the Section is divided, the lighting of them both by day and night, the precautions which have been taken to secure the valuable contents from injury by fire or damp, the hanging of the pictures, the disposition of the statuary, and the catalogue, which is full of interesting reading, as well as being a useful guide—all these features combine, with the unequalled merits of the works of art themselves, to render the Fine Art Section the most attractive part of the Exhibition, and one which, by itself alone, will make a visit to Manchester in 1887 a most delightful memorial of the Queen's Jubilee Year.

COMPLIMENTARY LIST

OF FIRMS AND INDIVIDUALS WHO HAVE RENDERED SERVICES

TO THE EXECUTIVE COMMITTEE.

COMPLIMENTARY LIST

OF FIRMS AND INDIVIDUALS WHO HAVE RENDERED SERVICES TO THE EXECUTIVE COMMITTEE.

DANIEL ADAMSON & Co., Engineering Works, Dukinfield, near Manchester.

Pair of Coupled Compound Horizontal Condensing Engines with 16in. and 28in. cylinders, 3ft. stroke, suitable for giving off 200 i.h.p.; the 16in. high-pressure cylinder, fitted with automatic expansion gear; engines with rope driving. Patent Testing Machine, to test up to 100 tons. This machine is arranged so that the full floating weight of 16lb. will register the maximum load. Observations can be recorded when the specimen under test stretches 1,500,000th of an inch.

SIR RICHARD ARKWRIGHT & Co., Cromford Mills, Cromford, near Derby; Masson Mills, Matlock Bath; and 38, George-street, Manchester.

Sir Richard Arkwright's Original Cotton Spinning Machinery, consisting of Lap Machine, for making laps by hand in canvas rolls. Breaker Carding Engine (incomplete). Finisher Carding Engine, with stationary flats and rollers. Lantern Slubbing or Roving Frame, with two lines, fluted bottom rollers (top rollers missing), driven by upright drum, with callender rollers and can, with can-turning motion. The Original Spinning Frame made by Richard Arkwright, about the year 1769, and worked at the original mill at Cromford, containing four spindles and flyers, with wharves for tape driving, driven by upright drum; stationary bolster rail with copping rail worked by heart and lever lift, three lines of fluted bottom rollers, front and middle top rollers leather covered, and wood bossed back rollers, all weighted with dead weights, hinged thread boards, traverse motion, &c. Piece of original Wood Shafting.

G. F. ARMITAGE, Altrincham.

Three Fine Antique Bronzes.

MRS. ASHETON ATKINSON, Lyme Grove, Altrincham.

Cartoon of Two Panels. Design suggested by two of Browning's poems illustrative of two sides of Art. In the first Nature is accepted as a perfect gift to be copied—

> "For, don't you mark? we're made so that we love
> First when we see them painted, things we have passed
> Perhaps a hundred times nor cared to see;
> And so they are better, painted—better to us,
> Which is the same thing. Art was given for that;"
>
> —*Robert Browning* ("Fra Lippo Lippi").

In the second a more spiritual Art is spoken of, one "To bring the invisible full into play!" A painter who touches this higher key note can never attain his ideal. Giotto's completed work was a perfect circle, drawn by one stroke of his pen: his "great Campanile is still to finish," his idea of it never having been quite realised.

"What's come to perfection perishes.
Things learned on earth, we shall practise in heaven:
Works done least rapidly, Art most cherishes.
Thyself shalt afford the example, Giotto!
Thy one work, not to decrease or diminish,
Done at a stroke, was just (was it not?) 'O!'
Thy great Campanile is still to finish."
—*Robert Browning* ("Old Pictures in Florence.")

John Ashton & Son, 36, Withy Grove, Manchester.

Double Straps, 75ft. by 11in., and 75ft. by 5½in.

W. H. Bailey & Co., Albion Works, Salford, Manchester.

Steam Fire Engine, capable of throwing two tons of water per minute 150ft. high, fixed in Machinery in Motion Section. Hand Fire Pumps, the Sandringham pattern. Sundry Fire Brigade Fittings. Fire Buckets. Turret Clock in Old Manchester Church Tower, with four dials. Strikes the hours and chimes the quarters. W. H. Bailey's patent system. Thirteen Bells in Tower of Old Manchester Church. W. H. Bailey's Patent Carillon Hand Chime, which enables one man to play tunes on the 13 bells. Turnstiles, inlet and outlet, at the various entrances of the Exhibition. Clock, West Nave. Bailey's Patent British Empire Clock, total diameter of dial 12ft. The hours are struck upon Harrington's patent chime tube, kindly lent by the inventor. The dial is so arranged that not only is the Greenwich time indicated in the centre, but also the time of day or night at some of the chief cities in Her Majesty's dominions. The sun at noon slowly moves round the dial, and is opposite those cities upon which the sun is shining. Day time and night time may be observed on the dial, and A.M. and P.M on the clock may be known by the position of the artificial sun in relation to the chief cities. An examination of the dial will enable an observer to grasp the meaning of the saying that, "The sun always shines upon some part of the dominions of England's Queen." Hence the name.

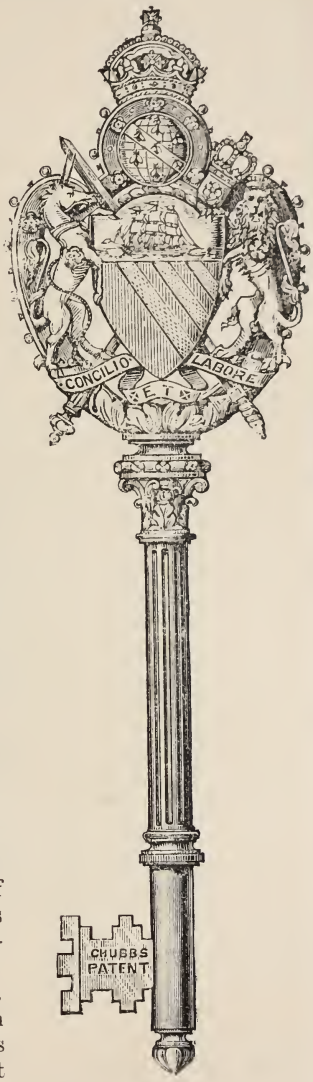
William Batty & Son, 9, Market-street, and 1, Cross-street, Manchester; and 125, Lord-street, Southport.

Round 8-day Timepieces, throughout the building. Eight-day "Grandfather" Clock, with Harrington Tube Chimes.

Cardinal and Harford, High Holborn, London.

Turkish, Indian, and Persian Carpets. Oriental Rugs and Curtains, and a large number of Indian Printed Cottons, used as objects of decoration throughout the building, especially Carpets used as Portières to entrance from Indian Court and on the south window, and Antique Embroideries used in the decoration of Indian facades.

CHUBB & SONS LOCK AND SAFE CO., LIMITED, makers to the Queen, the Prince of Wales, the Bank of England, &c., Cross-street, Manchester; also Liverpool, Wolverhampton, Bombay, Melbourne, &c.; chief warehouse, 128, Queen Victoria-street, London.



1. The Presentation Key, elaborately wrought in gold, silver, and jewelled, was given by this firm for presentation to H.R.H. the Prince of Wales at the opening ceremony. It is embellished with appropriate emblems, and enclosed in a rich velvet case. It is a master key of the Exhibition, opening any of the locks. 2. The 300 Locks supplied by this firm for the various exhibition buildings have Chubb's new silent, hinged latch action. 3. A Replica of the Gilded Cage, which was made by this firm for securing the Koh-i-noor, lent by Her Majesty the Queen for the Great Exhibition of '51, has been made and sent in, on loan, for exhibition in the Central Nave. The precious gems it protects (exhibited by Messrs. John Hall & Co.) are automatically lowered at night by guarded mechanism into a special make of safe, the doors of which are simultaneously closed, and these are opened in the morning, and the gems raised by the same means, which cannot be operated except at the will of the custodians. 4. The Executive, after careful consideration, selected Chubb's Fire-Resisting Doors for protecting the whole of the openings (over 30 in number) in the Fine Art Galleries, where some two million pounds worth of pictures are thus protected. The special precaution was also adopted of securing the openings into the various refreshment rooms by large fire-resisting doors, made by Messrs Chubb.

The Key for presentation to H.R.H. the Prince of Wales, on the occasion of the opening of this Exhibition, has been executed with due regard to the art importance of the event. The column, or stem, is fluted as a classic pillar, with composite capital, and small Lancaster Rose in the abacus. An acanthus filiation is the basis, from which springs a heart-shaped

head rising with an added circle round the Manchester globe, and surmounted by the coronet of the Prince. On the obverse, the full blazon of the Arms of the City is given, in enamel colours, richly painted, with supporters, crest, and motto, the Sword of Justice, and the Civic Mace being placed as correlated emblems in saltire. The reverse of key-head bears the correct plumes of H.R.H. the Prince of Wales, with a series of artistic and industrial emblems beside the shield for inscription. All these emblems relate to the purpose of the Exhibition.

JOHN T. CLARKE, 78, Faulkner-street, Manchester.

Indiarubber Stamps (Hand, Self-inking, Dating, Pocket, &c.), and all other accessories.

NEVILLE CLEGG, Altrincham.

Fine Antique Bronze.

THE COALBROOKDALE COMPANY LIMITED, Coalbrookdale R.S.O., Shropshire.

Cast-iron Vases, Garden Chairs, and Band Stand.

THE COMMITTEE OF SECTION No. 1.

The Committee have fitted up, furnished, and decorated the Council Chamber, a room opening from the Indian Court, to illustrate an Old English Banquet Hall. Specimens of Antique Furniture have been kindly lent by various collectors. R. H. Ainsworth, Esq., of Smithills Hall, Bolton, has lent a Long Table, a Settle, and 6 Armorial Chairs. Mrs. Caine, of Broughton-in-Furness, Antique Old Cabinet. C. H. Nevill, Esq.,of Bramhall Hall, various specimens of Armour and Pewterware. Messrs. Shrigley and Hunt, of Lancaster, 28 Stained Glass Windows, illustrating the Arms of the Towns of Lancashire. Messrs. Elliott, Edminson and Olney, of Manchester, a Patent Wood Block Floor. Messrs. Cardinal and Harford, of London, Fine Antique Eastern Rugs for the floor. Lent by the Committee: a Carved Oak Mantelpiece, Window Seats, Chairs and Settles, Wrought-iron Fire Dogs, and Fittings for Electric Light, Tapestry, Wall Hangings, &c. Also, the Chairman's Room, decorated with materials lent by Messrs. Jeffrey & Co., of London, and furnished with inlaid mahogany, all from designs by G. F. Armitage, of Altrincham. These articles will be for sale at the close of the Exhibition.

JOHN COWLEY & SON, Hyde, Manchester.

Screwing Machine for gas and steam piping. Parrott-nosed Wrenches. Pipe Cutters, and other tools.

COWLISHAW, NICOL & CO., Princess-street, Manchester.

Four Pairs of Portière Curtains to Archway to dome. Portière Curtains to Wrought-iron Screen at entrance to Music Room and to the Art Galleries.

Craven Bros., Limited, Vauxhall Iron Works, Osborne-street, Manchester.

Rope Power Travelling Crane, 26ft. span, will lift and travel a safe working load of 20 tons, controlled by a man seated at one end of the girders, where he has a clear view of the lifting hook. The crane is driven by a small pair of direct-acting coupled engines, fixed at one end of boiler house, with a rope pulley on engine shaft; the driving rope runs from this pulley the full length of gantry, and gives motion to the crane in travelling or lifting in any part of the gantry. The man on the crane can stop and start the engines so that the rope need not run when the crane is not required. The crane is carried by a gantry 150ft. long, of rolled iron girders, supported by cast-iron columns independent of the Exhibition Building. The crane was employed lifting the boilers, each weighing 21 tons, and other heavy exhibits before the opening of the Exhibition, and will be employed for the same purpose after the close.

Decauville Ainé, 7, Idol-lane, London, and Petit Bourg, France.

Decauville Portable Railway Wagons and Accessories. Decauville's Portable Tramway consists of short lengths of very light steel rails, *permanently* rivetted to cross sleepers, and with end connections of such a character that the rails make joint by being pressed into contact. The jointing of the rails is exceedingly simple. The rail to the right hand is furnished with two fish-plates; that to the left with a small steel plate rivetted underneath the rail and projecting 1¼in. beyond it. It is only necessary to lay the lengths end to end, making the rail which is furnished by the small plate come in between the two fish-plates, when the junction is at once effected, and the tramway used without further preparation. Each section of 4, 8, 12, or 16ft. is complete in itself, and thus the tramway can be laid down very rapidly. Where divergencies of route take place, curves, crossings, and light turn-tables are supplied, the main principle with these pieces being that they are sufficiently strong to carry working loads, at the same time that they are light enough to be easily handled by, at the most, two men. The lines most useful for quarries, brickfields, farm, and general estate work, forest clearing, timber yards, or plantations, are the 16in. and 20in. gauges, with rails weighing 9lb. or 15lb. the lineal yard. The wagons are particularly designed for contractors, mines, factory, farm, estate, and plantation work. They are built mainly of steel, will pack very closely for shipment, and have efficient means of lubrication, the axle-boxes being of improved construction, securing them from the admission of dirt, whilst maintaining a proper and equal supply of oil to the bearings.

Doulton and Co., Lambeth, London; and 17, Deansgate, Manchester.

Fountain, Balustrade, and Screen of Red Cotta, under central dome. The Fountain Pier is 30ft. in diameter. The Balustrade is broken by four flights of steps. It is over 100ft. in diameter, 3ft. 3in.

high, and is richly modelled on both sides. Surrounding this is an arcade in four sections, each about 70ft. long and 6ft. high. The columns, pilasters, spandrels, friezes and cornices are richly modelled. The whole of the above work is from the designs of G. F. Armitage, Esq.

DICKSON AND ROBINSON, 12, Old Millgate, Manchester.

Collection of Conifers and Evergreen Shrubs.

ISAAC DIXON AND CO., Windsor Iron Works, Spekeland-road, Edge Hill, Liverpool.

Iron Pavilion used by Exhibitors as Clubhouse, suitable for Billiard, Reading, Mission, or School Room. Erected on island in Botanical Gardens near the Fairy Fountain.

DICKSON, BROWN, AND TAIT, Nurserymen and Seed Merchants, 43 and 45, Corporation-street, Manchester.

Collection of Shrubs and Trees planted in lawn near Band Stand, also portion of the grounds sown with our grass seeds.

ELGOOD BROTHERS, Leicester.

A Wrought-iron Bracket, to carry the signboard placed at the entrance to the Art Gallery. Designed by G. F. Armitage.

GEO. FALKNER & SON, Deansgate, Manchester.

Printing of all the Note Paper and Envelopes required, free.

FOLLOWS AND BATE, LIMITED, Engineers, &c., Froxmer-street, Gorton, Manchester.

150 6ft. Gorton Lounges for the use of visitors in the Picture Galleries. Six Follows and Bate's Patent Lawn Mowers for use in the Gardens. Horse Power Roller. Hand Power Roller for the Lawns and Walks.

FRICTIONLESS ENGINE PACKING CO., 27, Exchange Buildings, St. Mary's Gate, Manchester.

Patent Engine Packing for valves and engines.

THE GOVERNMENT SCHOOL OF ART, Macclesfield; Walter Scott, head master.

Twenty-eight Drawings, Paintings, and Designs, illustrating some of the stages in the course of instruction given at the Macclesfield School of Art.

W. & J. GALLOWAY & SONS, Knott Mill Iron Works, Manchester.

10 Galloway Boilers, of 400 indicated h.-p. each, these boilers being 30ft. long by 8ft. diameter, containing 2 furnaces, and a Galloway back flue, with 38 Galloway cone tubes and water pockets. These boilers are entirely constructed of the best

selected steel plates, and are made suitable for an ordinary working pressure of 100lbs. to the square inch. They are fitted with complete set of mountings of the type ordinarily used by Messrs. Galloway in all boilers they construct. When it is mentioned that these boilers will evaporate 80,000lb. of water per hour, it will be seen that with ordinary condensing engines they are capable of providing sufficient steam for upwards of 4,000 indicated h.-p. Messrs. Galloway have also fitted up the whole of the steam and exhaust piping throughout the Machinery-in-Motion Department in the Exhibition, leading the steam to the various engines in the dynamo-house, and also the four large engines in the Machinery Annexe, and further, the exhaust steam from these various engines back to the main chimney, into which it is all conveyed, so as to avoid the nuisance of exhaust steam being thrown up in the immediate neighbourhood of the Exhibition itself. Altogether, in the Exhibition Messrs. Galloway supply over 200 tons of pipes. Messrs Galloway have also carried out the whole of the contract in connection with the illuminated fountains, having fixed a compound horizontal engine of 200 indicated h.-p., driving dynamos for illuminating the fountains, and also a superposed horizontal compound engine of 185 indicated h.-p. for working the 6 ram pumps, which furnish water at sufficient pressure to throw the jets the necessary height to make an effective display. It may be mentioned that these fountains are on a much more extensive scale than any which have been hitherto constructed, either for London or elsewhere; and by the present arrangement the whole of the various water jets and electric lighting, with the appliances for varying the colours, are worked by two men, which is a great improvement upon the London Exhibition, where about 20 men were employed under these fountains for the purpose of manipulating them and the coloured lights in connection therewith.

Jesse Haworth, Woodside, Bowdon.

The Throne, Cartouche, Royal Axe, Signet, Chessboard, and Chessmen of Queen Hatasu. Date, B.C. 1600. These remarkable relics, the workmanship of royal artists 3,500 years ago, *i.e.*, 200 years before the birth of Moses, are now being exhibited for the first time, by the kind permission of their owner, Jesse Haworth, Esq. Queen Hatasu was the favourite daughter of Thotmes I., and the sister of Thotmes II. and III., Egyptian kings of the XVIII. dynasty. She reigned jointly with her eldest brother; then alone for 15 years, and for a short time with her younger brother, Thotmes III. She was the Elizabeth of Egyptian history; had a masculine genius and unbounded ambition. A woman, she assumed male attire; was addressed as a king even in the inscriptions upon her monuments. Her edifices are said to be "the most tasteful, most complete, and brilliant creations which ever left the hands of an Egyptian artist." The largest and most beautifully-executed Obelisk, still standing at Karnak, bears her name. On the walls of her unique and beautiful Temple at Dayr-el-Baharee, we see a naval expedition sent to explore the unknown land of Punt, Southern Arabia, 600

years before the fleets of Solomon, and returning laden with foreign woods, rare trees, gums, perfumes, and strange beasts. Here we have Queen Hatasu's Throne, made of wood foreign to Egypt, the legs most elegantly carved in imitation of the leg of an animal, covered with gold down to the hoof, finishing with a silver band. Each leg has carved in relief two Uræi, the sacred cobra serpent of Egypt, under which form all the goddesses were represented. These were plated with gold. Each arm is ornamented with a serpent curving gracefully along from head to tail, the scales admirably imitated by hundreds of inlaid silver rings. The only remaining rail is plated with silver. The gold and silver are each of the purest, having no alloy. The fragment of the Cartouche or oval bearing the royal name, and once attached to the Throne; the hieroglyphics very admirably carved in relief, with a scroll-pattern round the edge, also round the margin, and a feather pattern round the other. About one-third of the oval remains, by means of which our distinguished Egyptologist, Miss Amelia B. Edwardes, LL.D., has been able to complete the name, and identify the Throne. On one side is the family name, "Ra-ma-ka." On the other the throne name. "Amen-Khnum-Hat-shep-su," generally abbreviated to Hatasu. With all its imperfections, it is unique, being the only throne which has ever been disinterred in Egypt. The Signet: This is a Scarabæus, in turquoise, bearing the Cartouche of Queen Hatasu, once worn by her as a ring. The Chessboard and Chessmen: These pieces are shaped like the head of the lioness, signifying "Hat," the first hieroglyph in Hatasu. Fragments of Glass Rods—use unknown. The carved face of the Goddess Isis, boldly yet exquisitely-carved in dark wood. She was the wife of Osiris. The coffin of Thotmes I. and the bodies of Thotmes II. and III. were found at Dayr-el-Baharee; that of Hatasu had disappeared, but her cabinet was there, and is now in the Boulak Museum, and "I have no doubt whatever," says Miss Edwardes, "that these smaller objects are from the cabinet and the throne from that tomb."

Hick, Hargreaves, & Co., Soho Iron Works, Bolton, Lancashire.

High-class Steam Engine, with Corliss Valves and Patent Valve Gear. Built-up Cylinder, with separate Liner and Steam Jacket. High-speed Governor and Knowles's Patent Supplementary Governor. Built-up Fly-wheel, grooved with deep grooves for rope transmission on improved plan, with separate centre boss, arms, and segments, fitted by special machinery. Patent Automatic Barring Engine, for turning main engine automatic motion for moving into gear and automatically out of gear when main engine starts. Photographs and Drawings of Mill Engines, Patent Valve Gear, &c. Main Driving Lines of Shafting, with couplings. New Patent Swivel Pedestals. Patent Self-lubricating and ordinary Pedestals. Rope-driving Pulleys, Belt Pulleys, &c.

John Heywood, Deansgate and Ridgefield, Manchester.

Copying Presses and Stands.

THE LANCASHIRE AND CHESHIRE TELEPHONIC EXCHANGE CO. LIMITED (Kenneth MacIver, Secretary and General Manager), 38, Faulkner-street, Manchester.

Telephones to various offices.

F. LEROY & Co., Gordon-street, Great Clowes-street, Lower Broughton, Manchester.

Have coated all the Steam Pipes, &c., in the Exhibition with their Improved Patent Non-conducting Composition.

LEVESON & SONS, 35, Piccadilly, Manchester; 90, New Oxford-street, London; 89, Bold-street, Liverpool; 32, Bond-street, Leeds.

Six Invalids' Carriages, mounted on bicycle wheels, with rubber tyres, and fitted with improved self-guiding front wheels.

ROGER L. LOWE, Wood Block Flooring Works, Worsley-road, Farnworth, near Bolton.

Lowe's Patent Solid Wood Block Flooring in Pitch Pine, laid on cement concrete bed, and permanently fastened with Lowe's Patent Preservative Composition, in vestibule, Royal Entrance.

H. AND J. LYONS, 19 Park-street, Manchester.

Writing and Copying Inks, Blue-Black, Scarlet, and Various Colours. Sealing Wax for letters, parcels, and bottling, supplied to offices.

JOHN MORRIS & SONS, Engineers, Regent Works, Cross-lane, Salford.

Morris's Patent Instantaneous System of Fire Hose Couplings including Standpipes, Branches, and all accessories complete for six fire brigade vans. Captain Tozer's Patent Twin Branch, with nozzles and stand-rest. Twelve Morris's Regent Hand Fire Pumps complete, with bucket stands and 24 leather fire buckets. Four Morris's Corridor Fire Engines, mounted on two wheels, so as to be easily wheeled about the Exhibition Buildings, complete with hose and jets.

MATHER AND PLATT, Engineers and Machinists, Salford Iron Works, Manchester.

Complete Electric Lighting Plant, for the Fine Art Section. The plant comprises a pair of high-pressure vertical engines, arranged for condensing, specially designed and constructed for the purpose. Each engine is capable of indicating up to 150h.-p., and is provided with patent automatic cut off, and has the cylinder steam-jacketed. One engine drives two compound wound patent Manchester dynamos, each capable of working 800 lamps of 20c.-p., when running at 730 revolutions. The second engine drives two shunt wound Edison-Hopkinson dynamos, each intended to work 500 incandescent lamps

of 20 c.p. at a speed of 850 revolutions per minute. Both pairs of dynamos are driven with a special short belt arrangement to economise floor space and provide means for taking up the slack of the belt whilst running. In connection with these same engines, Messrs. Mather and Platt have a double cylinder diagonal engine with automatic cut off, driving a No. 6 Manchester dynamo, which can be used either for lighting or for working the electric motors in Messrs. Mather and Platt's Machinery Exhibit, No. 384, Section 2, Machinery Annexe (West).

DAVID MOSELEY & SONS, Chapel Field Works, Ardwick, Manchester; warehouses, 2, 4, and 6, New Brown-street, Manchester; 14, Aldermanbury Avenue, London, E.C.; 57, Miller-street, Glasgow; 20, Rue des Marais, Paris; 14, Place Sainte Gudule, Brussels.

Treads for Stairs, and all Mats required.

JOHN MUSGRAVE & SONS, LIMITED, Globe Iron Works, Bolton, Lancashire.

Horizontal Compound Steam Engine, 4ft. stroke, high-pressure cylinder 21in. diameter, low-pressure cylinder, 37in. diameter, fitted with Musgraves' patent traversing Corliss valves, automatic slip-motion and quick-speed governor; fly rope drum between cylinders 20ft. diameter, grooved for 15 1½in. ropes; Whitworth hollow-compressed fluid steel crank shaft and crank pin. This engine is prepared for the application of condensing apparatus. Turning or Barring Engine, with Musgraves' patent automatic safety apparatus. Duplicate Turning or Barring Engine, with Musgraves' patent automatic safety apparatus.

C. H. NEVILL, Bramhall Hall.

Two Fine Antique Bronzes.

F. AND C. OSLER, Broad-street, Birmingham; and 100, Oxford-street, London, W.

Crystal Fountain in Chemical Section.

PATRICK O'CONNOR, High-street, Wavertree, near Liverpool.

Automatic Hinges for folding doors.

PERKINS, SON, AND BARRETT, The Forge, Bradford.

The whole of the Steel Shafting, Stands, Plummer Blocks, and Wrought-iron Main Driving and Transmitting Pulleys in the Dynamo Department, transmitting altogether about 1,100 indicated horse power. They also supply the whole of the Main and Line Shafting, Rope and Main Belt Pulleys for the three lines in Section two, Machinery in Motion Department, the whole being driven by Messrs. Adamson's Engine. The Wrought-iron Belt Pulleys are of Perkins, Son, and Barrett's well-known manufacture, which have

become one of their principal specialities. Three styles of Flanged Couplings are shown, viz., the Recessed Flange, the Ordinary Flange, and the Marine Flange, in which the coupling is forged solid with the shaft, and makes at the same time a strong, neat, and light job.

FRANK PEARN & Co., Engineers, West Gorton, Manchester.

Pumping Engine for Boilers.

THE MISSES C. AND J. PRESTON, 1, York Terrace, Chester-road, Old Trafford, Manchester.

Drawings of the Royal Jubilee Exhibition, Manchester, photographed by the Misses C. and J. Preston from the original tracings.

WILLIAM ROSE & Co., Fire Engineers and Hose Manufacturers, Grosvenor Chambers, Manchester.

Fire Appliances.

SHRIGLEY AND HUNT, John-o'-Gaunt's Gate, Lancaster, and 28, John-street, Bedford Row, London, W.C.

Council Chamber: The upper lights throughout are treated with the Arms of the Boroughs of Lancashire. Below each shield is a scroll setting forth the date of incorporation, or where this date is uncertain, by whom the charter was granted, *e.g.*, Lancaster, by John Earl of Moston (afterwards King John). The shields are surrounded with ornaments introducing the Lancaster Rose. Commencing with the bay window on the west side of chamber the shields are arranged in the following order (see below). Bay Window, West Side: 1. Liverpool. 2. Preston. 3. Clitheroe. 4. Manchester. 5. Salford. 6. Lancaster. 7. Wigan. 8. Bolton. 9. Ashton-under-Lyne. 10. Warrington, and 11. Oldham. Straight Window, East Side,: 12. Blackburn. 13. Rochdale. 14. Stalybridge. 15. Burnley, and 16. Barrow-in-Furness. Bay Window, East Side: 17. St. Helens. 18. Bootle. 19. Bury. 20. Manchester. 21. Darwen. 22. Salford. 23. Accrington. 24. Heywood, and 25. Chorley. The lower lights of the windows are fitted with ornamental lead glazing in tinted glass.

West Side.

1 2 3 4 5 6 7 8 9 10 11

East Side.

25 24 23 22 21 20 19 18 17 16 15 14 13 12

SINGER & SONS, Art Metal Workers, Frome, Somerset.

Eight Wrought-iron Bevel Standards, for electric lamps, standing at the head of the flights of steps leading to the dais.

RICHARD SYKES, Edgeley House, Stockport; E. W. JOYNSON, Ashfield, Sale; NEVILLE CLEGG, Oldfield Brow, Altrincham.

Specimens of the Native Grasses of the North American Continent, collected by Mr. Sykes in Iowa, Dakota, U.S. The wild prairie grasses differ from any of the cultivated grasses of England. Those of the andropogon and panicum species are specially worth notice. Also Specimens of Wheat, Barley, and Indian Corn. Also splendid show collection of Indian Corn, shown at Chicago in December last. This Chicago exhibition was promoted by Mr. Orange Judd, of the *Prairie Farmer*, Chicago, was of the highest importance, and comprised prize corn from the States of Illinois, Indiana, Wisconsin, Ohio, Iowa, Minnesota, Kansas, Nebraska, Missouri, and Michigan. The exhibitors purchased and imported specially for this Jubilee a portion of the Prairie Farmers' Collection, consisting of over 5,000 ears of Indian Corn.

SLACK AND BROWNLOW, Canning Works, Upper Medlock-street, Manchester.

Filters for use in gardens.

HENRY THOMAS; Messrs. Alexander Wright & Co., 10, Mawson's Chambers, Deansgate, Manchester.

The Schulke Regenerative Gas Light for domestic and public lighting.

THOS. THOMAS & SONS, Hoisting Engineers, Acme Hoist Works, Cardiff.

Self-sustaining Hoisting Machinery. Acme Passenger Elevator, to carry four persons, shown at work, conveying visitors to and from the galleries of this section. Hand-power Single Warehouse Lift for 7cwt. Hand-power Single Dinner Lift for 1cwt. Single Grocers' Sack Lift for 3cwt. Double Grocers' Sack Lift for 3cwt. Derrick Winch, for 1 ton direct from the barrel. Hoisting Crab for 1 ton (double purchase).

HENRY WHITEHEAD, Bury.

Fine Antique Bronze.

JAMES WRIGLEY & SON, LIMITED, Bridge Hall Mills, Bury, Lancashire.

Donors of the Stationery used in carrying on the correspondence of the Royal Jubilee Exhibition.

THE PATENT WATERPROOF PAPER AND CANVAS CO., LIMITED, Willesden Paper Works, Willesden Junction, London, N.W.

Tent, 10ft. square.

SECTION I.

INDUSTRIAL DESIGN.

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INDUSTRIAL DESIGN.

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1 Isaac Bury, Adelphi Dyeing and Finishing Works, Salford, Manchester.

Bleached, Dyed, and Embossed Calicoes, Embossed Prints, Embossed Velvets.

2 Henry Marriott & Co. Warehouse, 23, Portland-street, City; works, Newbridge Mills, Stockport.

Coloured Cotton Fabrics made for East and West Indies, Africa, South America, Mexico, Brazil, and the Australian Colonies.

3 William Holland & Sons, Victoria Mills, Miles Platting, Manchester.

Sea Island Cotton in its various processes: raw, carded, combed, and prepared for spinning. Combed Cotton Yarns. Single 20's to 200's Cops for Thread and Muslin Manufacturers. Combed Water Twist, 20's to 70's, for Warps, in balls and chains. Two-fold Cops, Warps, and Bundles, Gassed Yarns, Hard and Soft Twist, Sewing Cottons, 3, 4, 6, and 9 cords in skeins, grey, best qualities. Fine Heald Yarns.

4 W. T. Ashton & Son, Stanley Mill, Whitefield, and 6, Dickinson-street, Manchester.

Fancy Woven Cotton Fabrics, Oxfords, Harvards, Zephyrs, Galateas, Mattings, Denims, Ticks, Regattas, Ginghams, Italian Checks, Handkerchiefs, Coloured and Check Dhooties, Sarongs, Putzoes, Lungis, and Specialities for Africa, India, and South America.

5 William Holt & Sons, 37, York-street, Manchester; mills, Walshaw, near Bury.

White Toilet, Honeycomb, Grecian, Coloured Alhambra, and Embroidered Quilts. Toilet Covers. Toiletings. Perched Quiltings. Piqués. White and Coloured Vest and Fancy Quiltings. Plain and Embroidered Antimacassars.

6 Lee and Hargreaves, 7, Rook-street, Manchester; and Hooley Bridge Mills, Heywood.

Towellings, viz., Cotton and Linen Turkish. Fancy and Striped Turkish. Terry Cloths. Bath Blankets. Bath Gowns, cotton, honeycomb, and huckaback.

7 Barker & Co., Limited, Springfield Towel Works, Stockport.

White Cotton Turkish Towels. Brown Linen Turkish Towels. Fancy Striped Turkish Towels. Fancy Striped Terry Pieces.

8 Wm. Bashall & Co., Farington Mills, Preston; 12, Chatham-street, Manchester.

White Domestic Calicoes, Longcloths, Mediums, Twills, &c. Ladies' Underclothing manufactured from above.

9 Fred. E. Jackson & Co., 6, Union-street, Church-street, Manchester.

Target and other Coloured Woven Cotton, Union and Wool Shirtings. To be seen in process of manufacture in Section 2, Stand 426. Stacksteads Pure Calicoes, original make.

10 John Haslam & Co., Limited; warehouses, Fountain-street, Manchester, and 7, Watling-street, London; mills, Halliwell Cotton Works, Derby-street Mills; and Lark Hill Mills, Bolton-le-Moors.

Sea Island and Egyptian Cotton, in the various stages of manufacture, from the raw material to the finished article. Cop Yarns, viz., Twist, Pin Cops, and Weft from 20's to 100's counts. Muslins, Cambrics, Lawns, Mulls, Jacconets, Nainsooks, &c. Brocades, Checks, Stripes, and Cotton Dress Costume Fabrics, white and in colours. Sateens, Cashmeres, Cashmerettes, Oatmeals, &c. White Shirtings, Longcloths, Mediums, Twills, &c. Kershaw's Cellular Cloth.

11 Geo. Thomas & Co., 28, Deansgate, Manchester.

Universal Yarn Assorting Balance for indicating the counts of yarn in small pieces of cloth (cotton, linen, woollen, &c.).

12 Hermann J. Hahlo, 41, Faulkner-street, Manchester.

Grass, Cotton, Linen, India Tapes, Silk, Cotton, China Ribbons and Flosses.

13 Crewdson Crosses & Co., Limited, 40, Portland-street, Manchester.

Mediums. Shirtings and Longcloths. Sheetings. Double Warps and Twills.

14 Peter Reid, Caledonian Dye and Bleach Works, Pendleton, Manchester.

Bleached Cotton Cloth. Dyed Cotton Cloth. Printed Cotton Cloth. Dyed Cotton Yarns.

15 Arthur S. Plews, 13, Nicholas-street, Manchester.

Plain, Dyed, and Printed Sateens and Drillettes. Oatmeal Cloths. Piqués. Plain and Fancy Muslins and Cotton Dress Goods.

16 Jabez Johnson, Son, Allsop & Co., 44, Spring Gardens, Manchester; 10, Milk-street, Cheapside, London; 2, Royal Exchange Court, Queen-street, Glasgow; 2, Rue Vivienne, Paris.

Toilet, Marseilles, Honeycomb, and Alhambra Quilts. Toilet Covers. Toiletings. Table Covers. Curtains. Linen and Cotton Turkish, Honeycomb, and Fancy Towels. Cotton Blankets and Sheets. Quiltings. Piqués and Damasks.

17 Bond and Riley, 14, Calendar-street, Palace Square, Manchester; works, Milton Mills, Bolton.

Toilet, Alhambra, Honeycomb, and other Quilts. Table Covers, Prayer Mats. Jergas, &c.

18 Richard Haworth & Co., 28, High-street, Manchester; works, Egerton and Tatton Mills, Ordsall-lane, Salford.

Bleached Calicoes and Sheetings. Dyed and Printed Linings, Fustians, Velvets, and Velveteens. Plain, Printed, and Woven Window Blinds. Heald Yarns. Crochet and Sewing Cotton. Fishing Net Yarns, and Reed Band.

19 The Hollins Mill Co., 14 & 16, Mosley-street, Manchester; works, Hollins, Marple, and Wellington Mills, Hazel Grove.

Bleached Sheetings. Bleached Shirtings, Longcloths, Wigans, Mediums, Croydons, Twills, and Double Warps. Dyed Beetled Twills and Pocketings. Printed Silesias, Satins, and Black Backs. Grey Lustre Linings. Dyed Velveteens. Window Blinds in plain colours, printed in stripes, art designs, both single and reversible; also woven coloured stripes.

20 W. M. Christy & Sons, Limited, 14, West Mosley-street, Manchester, and Fairfield Mills, Droylsden, near Manchester.

Turkish Towels and Bath Blankets. Huckaback, Honeycomb, and Fancy Towels.

21 McIntyre, Hogg, & Co., 16, Newton-street, Manchester; 3, New Basinghall-street, London, E.C.

Gentlemen's Shirts and Collars, cotton, linen, woollen, and silk.

22 McConnel & Co., Limited, 90, Henry-street, Ancoats, Manchester.

Cotton from its raw state to yarn; also various articles manufactured from cotton yarns, as laces, curtains, velvets, &c.

23 SWAINSON, BIRLEY, & Co., Fishwick Mills, Preston; 7, Charlotte-street, Manchester.

Longcloths, Shirtings, Mediums, Sheetings, &c.; plain and fancy Muslins, Sateens, Matelasses, Drills, and Costume Cloth.

24 JAMES CHADWICK & BRO., Eagley Mills, near Bolton.

Cotton, Linen and Worsted Tapes, Boot Webs, Bed Laces, Window Blind Cords, Super Linen Ladder Web, Artistic Picture Cord, Corset Cord, Carpet Binding, Stay Tape, Wire Ribbon, &c., Blocked Chinese Tape, Super Stout India Tape, Brussels Carpet Binding.

25 LOR. BIERFREUND, Odense, Denmark.

Curtains and Furniture Coverings of Jute. Coloured and Fancy Cotton Goods.

26 KEARNS, ALLAN, & Co., 4, South King-street, Manchester; and Turkey Red Dye Works, Baxenden, Accrington,

Cotton Yarns, dyed in hank. Woven Cotton and Linen Goods, containing coloured yarns. Dhooties. Plain and Figured Linen and Cotton Towels and Glass Cloths. Oxford Shirtings. Coloured Damasks. Nottingham Lace, containing coloured yarns. Bordered Handkerchiefs. Specimens of Coloured Yarns ready for use. Coloured Woollen Weft, for making headings in cotton cloths. Specimens of Handwork with dyed cottons. Specimens of Dyeing Materials used to produce the colours. Specimens of unusual Dye Stuffs, and Cottons dyed therefrom

27 ELKINGTON & Co., St. Ann's-square, Manchester.

A Selection of Art Metalwork in silver and electro-plate, enamels, &c., including original *répoussé* productions and *fac-simile* copies of the same. A variety of Reproductions from South Kensington and the principal museums of Europe, showing examples of the Classic, Gothic, Renaissance, and other periods. A selection of Jugs, Cups, Candelabra, &c., in the new art gold bronze. A quantity of Silver and Electro-plated Goods, Cutlery, &c.

28 WALKER & HALL, Electro Works, Sheffield.

Sterling Silver, Electro-plate, and Table Cutlery.

29 R. RAMSBOTTOM, 81, Market-street, Manchester.

Guns, Rifles, Revolvers. Fishing Rods, Flies, and Tackle Cricket, Lawn Tennis, and other outdoor games and sports.

30 Thomas Armstrong & Brother, 88 and 90, Deansgate, Manchester.

Clocks, Watches, Gold Chains, and Jewellery. Spectacles and Eye Glasses. Artificial Eyes. Cases of Test Glasses, Ophthalmascopes, and Test Types for Oculists. Race, Field, and Opera Glasses. Aneroid and Mercurial Barometers, Thermometers, Saccharometers, Hydrometers. Microscopes and Microscopic Objects. Surveying Instruments, Levels, and Theodolites. Astronomical and other Telescopes. Photographic Lenses and Cameras. Magic Lanterns and Slides.

31 Joseph Gillott & Sons, Victoria Works, Graham-street, Birmingham.

Specimens of Steel Pens, in the various stages of manufacture. Finished Pens, and Fancy Coloured and Ground Pens.

33 William Ford Stanley, 4 and 5, Great Turnstile, Holborn, London, W.C.

Cases of Patented Drawing Instruments. Improved Eidograph. Improved Pentograph. Patented Protractor. Improved Dumpy Level. Theodolite, with electrically-illuminated axis. Improved Miners' Dial. J. Ainsler's Integrator. Polar Planimeters, and Current Meters. Patented Scales, and various instruments.

34 Mesdames Scown and Newling, 64, King-street, Manchester.

Cane's 3ft. 3in. Brass Folding Cot, trimmed. Model Cot, in black and white, japanned, trimmed. Royal Nursery Cot. Wicker Bassinette. Wicker Infant's Baskets. Folding Iron Baskets. Stand Wicker Baskets.

35 Gilbert James French, 31, Manchester-road, Bolton, Lancashire.

Altar Cloth. Communion Linen. Carpets. Tapestries. Communicants' Kneeling and Seat Rugs. Pede Mats. Ecclesiastical Chair. Kneeling Hassocks and Pads. Clergy and Choir Cassocks, Surplices, Hoods, and Stoles. Ecclesiastical and Emblematic Banners. Embroideries, and other articles of church furniture and decoration.

36 Horrockses, Miller & Co., Preston, London, and Manchester.

White Calicoes and Sheetings.

37 Barlow & Jones, Limited, 2, Portland-street, Manchester.

Toilet, Marseilles, Patent Satin, Tapestry, Mitcheline, Honeycomb, Grecian, Alhambra, and Oriental Quilts; Cotton Sheets and Cotton Blankets for export. The Royal Velvet Twill Sheets and Sheetings. Bath Sheets. Dusters. Sponge Cloths. Antimacassars.

Honeycomb, Huckaback, Fancy and Osman Turkish Towels. Tapestry Tablecloths. Quilting and Satin Toilet Covers, printed and embroidered. White, Dyed, and Printed Damasks. Toiletings. Vestings. Piqués. Perched Quiltings. Swansdowns. Tiny Cloth. Canvas and Angola for embroidery. Fleece Door Mats and Hearth Rugs.

38 TOOTAL, BROADHURST, LEE & Co., 56 to 62, Mosley-street, and 2, Charlotte-street, Manchester; Sunnyside Mills, Bolton; Ten Acres Mill, Manchester; Black Lane Mills, Radcliffe; and Dan Lane Mills, Atherton.

Plain and Fancy Muslins and White Dress Goods. Plain and Fancy Skirtings. All and Mixed Silk, Woollen, and Cotton Dress Goods. Piqués. Fancy Printed Calicoes and Muslins. Velveteens. Handkerchiefs. Sateens and Linings. Yarns and Sewing Cottons.

39 THE ROSSENDALE PRINTING CO., 33, George-street, Manchester.

Printed Cretonnes in Reps, Toile à Voile, Sateens for Quilts, Crèpes, Twills, &c. Printed Calicoes of all kinds for home trade and export. Printed Fancy Cloths of various kinds for dresses.

40 JOSEPH WATERHOUSE, Hall Bank, Bowdon, Cheshire.

Designs for Printed Fabrics.

41 LÉON LANG, Designer, 16, Peel Terrace, Old Trafford, Manchester.

Designs for Calico Printing.

42 ROBT. FIELDING & SON; works, Sycamore-street, Oldham-road, Manchester; office, 15A, York-street, Manchester.

Large Design of a figured silk handkerchief, for weaving portrait of Her Majesty Queen Victoria and other portraits, and illustrations of various incidents which have occurred during the Queen's lifetime. A handkerchief woven from the above design is exhibited. Can be seen weaving in the loom of the Bradford Manufacturing Co., in the Machinery Annexe East, Stand No. 389. Two Designs for silk dress cloths, with samples of silk cloths woven from them. Design for cotton dress fabric, with sample of cloth woven from it. This design can be seen weaving in the loom of Devoge & Co., Jacquard machinists, Stand No. 372, in Machinery Annexe East. Sketches for various styles of cloth, in which the design is to be woven by the Jacquard machine.

43 THE THORNLIEBANK COMPANY, LIMITED, 43, Portland-street, Manchester; 4, West Regent-street, Glasgow; 106, Cheapside, and 79, Gresham-street, London, E.C.; works, Thornliebank, near Glasgow.

Calico Prints, Fancy Dyed Goods, and Printed Cashmeres.

44 F. W. Grafton & Co., 91, Portland-street, Manchester.
Calico Printing.

45 S. Schwabe & Co., 41, George-street, Manchester, and Rhodes Works, near Middleton.
Printed Cottons.

46 William Watson & Co., 60, George-street, Manchester.
Printed Cottons.

47 Samuel Knowles & Co., Tottington Mills, near Bury, and 66, Mosley-street, Manchester.
Printed Calicoes, in Turkey red and extract styles, chiefly Furnitures for curtains and hall decoration.

48 Gemmell and Harter, The Radcliffe Printing Co., Limited, 16, Charlotte-street, Manchester; works, Radcliffe.
Printed Cottons.

49 & 50 The Dacca Twist Company—Rylands & Sons, Limited, New High-street, Manchester, and Wood-street, London.
Calicoes—Grey, Bleached, Scoured, and Dyed—comprising every description and quality, both in plain, twilled, and fancy makes. Floor Oilcloths of every description and quality. Toilet Covers, Fichus, Handkerchiefs, Dimities, Crèpes, Cotton Diapers, Dyed Damasks. Coloured Shirtings—Oxfords, Regattas, &c., in all qualities and designs. Turkey Red Twills, in all qualities. Shirts—White and Coloured—in all varieties. Smallwares of every kind. Sewing Cottons, Tapes, Braids, Window Cords. Waddings in all colours. Ladies' and Children's Underclothing, Stays and Corsets. Coloured Mufflers, Ties, &c. Umbrellas in all varieties. Eiderdown Quilts and Fringes.

51 William Woollams & Co., 110, High-street (near Manchester Square), London, W.
Artistic Wall and Ceiling Papers free from arsenic. Patent Embossed Flock Papers. Coriacene (registered), a new embossed imitation leather paper. Raised Flock Papers for painting over. Flock, Chintz, and Damask Papers on mica grounds.

52 Cassell & Co., Limited, La Belle Sauvage, Ludgate-hill, London, E.C.
Art, Educational, and Popular Publications, Magazines, Serial Works, &c. Specimens of Electrotypes, Art Processes, Wood Blocks, &c. Cassell's National and Red Libraries, &c.

53 F. Steiner & Co., Church Works, Church, Lancashire; Irwell Springs Works, near Bacup, Lancashire; and Manchester, London, and Glasgow.

Turkey Red Goods and Yarns. Turkey Red Prints, and Calico Prints generally.

54 A & S. Henry & Co., 38, York-street, Manchester.

Velvets, Velveteens, Corduroys, Moleskins, Silk Plushes, Dyed and Printed Silesias and Linings, White and Grey Calicoes, Oxford and Harvard Shirtings, Shirts, Linens, &c.

55 Simpson and Godlee, Dean's Mill, Swinton, and 51, Portland-street, Manchester.

Damasks, Dimitties, Belgian Stripes, Cretonnes, Turkey Red Twills.

56 Albert Dux & Co., 36 and 38, Queen-street, and Sunnyside Furnishing Works, Salford.

Cutting Machine for Velvets. Grinding Stone to sharpen the knives. Various Dyed and Printed Cotton Goods.

57 Ralph Hall & Co., 27, Portland-street, Manchester.

Velveteens, Velvets, Dyed and Printed Linings, Drills, and Sateens.

58 Broome, Hallworth, and Foster, 4 and 6, St. Peter's Square, Manchester.

Velutina, an improved velvet pile fabric. Velveteens, Dyed and Printed Linings and Dress Sateens, Lustrine Sleeve Linings.

59 Holroyd and Scott, Parkside Mills, Bradford.

Cotton Plushes, Silk Plush.

60 Anyon's Patent Macramé Lace Loom Co., 97, Oxford-street, Chorlton-upon-Medlock.

Macramé Lace Looms and Frames. Macramé Lace Materials silk and twine. The Albion Darning Last. Sample of Work ma up in Macramé, such as table, brackets, and drawing-room tidies.

61 Bayne & Son, Burnley.

Cotton Cords, as from the Loom. Cutting of the same in process. Goods in the finished state.

62 William Cooke & Co., Grove Works, Claypit-lane, Leeds.

Golden Lustre Silk. Paper Hangings.

63 Isaac Chorlton & Co., 19, Blackfriars-street; works, Water-street, Salford, Manchester.

Metallic Bedsteads. Bedsteads combined with Spring Mattresses. Steel Spring and Chain, Woven Wire, and other Spring Mattresses. Ships' Berths—single; also double-tier. Folding Spring Beds and Stretchers. Invalid Appliance Spring Beds. Hospital Beds of various descriptions. Invalid Spring Couches. Invalid Bed-Rests. Patent Castors.

64 Jonathan Robertshaw, Imperial Works, Cornbrook Park-road, Manchester.

Persian Bedstead complete, fitted with double woven steel wire mattress. Hospital or Servants' Bedstead, fitted with chain spring mattress, without wood frame. Chain Mattress, on wood frame complete. Spring Wire Mattress, on wood frame. Bed-Rest, for supporting the back of an invalid in bed. Hair Mattress.

65 Frazer Bros., Summer Hill Foundry, and Wiggin-street Bedstead Works, Birmingham.

Bedsteads in brass, composite, and iron. Bedsteads with patent seat at end. Fenders and Kerbs in brass and iron. Fire Brasses and Fire Irons. Dog Rests. Umbrella Stands. Fire Screens. Coal Vases. Mirrors in repoussé brass frames. Tile Hearths.

66 The Longford Wire, Iron, and Steel Co., Limited, Warrington.

Longford Galvanised, Highly-tempered, Spring Steel Wire Mattresses and Bedsteads, combined for domestic, hotels, hospitals, and for use in institutions generally. Galvanised Woven Steel Wire, for railway carriage seats, ships' sofa berths, couches, billiard-room seats, &c., also ships' berths.

67 James Wrigley & Son, Limited, Bridge Hall Mills, Bury, Lancashire; 21, Budge Row, Cannon-street, London, E.C.; 29, John Dalton-street, Manchester.

Assortment of Papers, consisting of writing papers, white and tinted, all qualities; plate paper, fine and superfine; white and toned, fine and superfine; printings, white and toned; various qualities printings; plate glazed printings for colour work; super callendered papers, antique papers, and etching paper; superfine litho cartridge; splendid assortment of card boards, white and tinted; various qualities of news; 1 reel of newspaper, consisting of one continuous web 4 miles 367 yards long; specimens of materials used in manufacture of paper, showing the same in various stages of preparation; 1 reel of writing paper, in which the postal rates are water-marked 82,668 times, each water-mark representing one sheet of note paper.

68 The Committee of the Manchester Art Museum, Ancoats Hall, Manchester.

Pictures and other Works of Art lent to Public Elementary Schools in Manchester and Salford. Descriptions and references to explanations in the Art Museum of the processes of which they are products.

74 Laurent Colas, Bogny Braux, Ardennes, France.

Specimens of Patent Axle Fittings for coaches and wagons.

75 The Claviger Cycle Co., Limited, Mary-street and New Bridge-street, Strangeways, Manchester.

Safety Bicycles, front and rear drivers. Tricycles, front and rear drivers.

76 Sergeant and Walmsley, Bury New Road, Manchester.

Small Canoe Landau, for one horse. Fitted with patent self-acting head, mounted on elliptic and cross springs, with open heads and indiarubber fittings. Collinge's patent axles. All light steel forgings.

77 Henry Fleetwood Lloyd, 12, Colquit-street, Liverpool.

Patent Folding Two and Four Wheel Albany Carriages.

78 J. A. Lawton & Co., 35, Hardman-street, Liverpool.

Full Lock Cee and Under Spring Victoria Phaeton, fitted with patent lever brake. Patent Automatic Head Lift, suitable for one or a pair of horses. Canoe Landau, fitted with patent self-acting automatic head lift, &c., suitable for one or a pair of horses.

79 H. McMullen & Son, North Crescent, Hertford, Herts.

The Crescent Phaeton, registered, a four-wheel carriage, with very short coupling and high wheels. The Crescent Car, registered, a two-wheel, easy of access, with high wheels. The Olympia Phaeton, a close-coupled four-wheel, of new design. The Olympia Cart, a two-wheel, of new design.

80 Forder & Co., Limited, 7, 8, and 9, Upper St. Martin's-lane, London, and Cleveland-road, Wolverhampton.

Patent Royal Hansom, hung upon Cee springs, with shackle ends; body fitted with apparatus for opening doors by driver, metallic front and side frames, polished brass, trimmed with black morocco, with black and gold lace; brass mounted lamps and furniture.

81 McNaught & Co., 10, Park-lane, London; Worcester; and 13, Slater-street, Liverpool.

Light (eight inside) Omnibus, with head moveable to form Open Brake. Single-seated Brougham for one horse.

82 Joseph Owen & Sons, 21, Grosvenor-street, C.-on-M., Manchester; 67, St. Anne-street, Liverpool; sawmills and manufactory, Stanley Mills, Melrose-road, Kirkdale, Liverpool.

Bent and otherwise manufactured Timber used in construction of vehicles; shaft, and other bent timber; pillars, beds, and other body scantling and sweeps; panels and other boards; spokes, felloes, naves; architraves, moulds, skirting; floor and matched boards; beetle-fallers, bobbin-blocks, picking-sticks, road timber, tool handles, mangle rollers.

83 JOHN ROBERTS, 6, Cavendish-street, Stretford-road, Manchester.

Light Canoe Landau, with patent automaton head, levers for throwing glass frames into doors, large front light to body, for one or pair of horses. Cee and Underspring Ogee Back Victoria Phaeton, with crane-neck perch, full lock forecarriage, morocco lining, silver mounts, for one or pair of horses.

84 JOHN CHARLES WINDOVER, 29, Oxford-street, St. Peter's, Manchester.

Landau and Brougham.

85 THE STEEL FRAME CARRIAGE CO., LIMITED, Polygon Avenue, Ardwick, Manchester.

Hansom Cab, fitted with patent ventilator, non-slipping treads, and rubber tyres. Brougham, fitted with non-slipping treads, and patent lock. Dog Cart, fitted with safety foot rests, non-slipping treads and rubber tyres. Specimens of Panelling and Steel Frame.

86 GEORGE MORRIS, 5, Prince of Wales'-road, Norwich.

Gem Cart, fitted with automatic seats. Four-wheeled Dog Cart, or Sporting Phaeton. Alexandra Car, to carry four persons.

87 and 87A JOSEPH COCKSHOOT & Co., New Bridge-street, Strangeways, Manchester.

Brougham, Siamese Victoria, and Victoria Phaeton. Saddlery, Harness, &c.

88 M. NAIRN & Co., Kirkcaldy, Scotland; Canal-street, Minshull-street, Manchester; 131, Aldersgate-street, London; 113, Centre-street, Glasgow; 57, Boulevard Ornano, Paris.

Floorcloth and Linoleum.

89 THE BRISTOL WAGON WORKS CO., LIMITED, Lawrence Hill, Bristol.

Margetson and Hek's Patent Screw Tip Cart, with Patent Brake. Adjustable Dog Cart. Four-wheel Dog Cart Phaeton.

90 ANNE COWBURN, Park Place, Cheetham, Manchester.

Pair-horse Landau, with inimitable head, noiseless, and draught-excluding windows. Medium-size Brougham, with square front, noiseless, and draught-excluding windows.

91 THOMAS BRIGGS, Bridge-street; Patent Cart Works, Darwen, and Chester Road, Stretford, Manchester.

Adjustable Two-wheeled Tipping Cart, fitted with noiseless automatic brake on both wheels. Specimen set of Patent Fittings for one cart.

92 Leveson & Sons, 35, Piccadilly, Manchester; 90 and 92, New Oxford-street, London, W.C.; 89, Bold-street, Liverpool; and 32, Bond-street, Leeds.

Bath Chair. Invalid's Carriage. Perambulators. Telescope Couch and Chair combined. Merlin Chair. Reclining Chair. Carrying Chairs. Bed Tables. Leg Rests. Bed Rests. Reading Stands.

93 W. H. Cooke & Co., Woodall's Buildings and Water-street, Manchester.

Doors. Turned Balusters. Turned Newels. Square-built Newels, in walnut. Handrailing. Moulds. Architraves. Garden Chairs. Garden Folding Chairs. Tables. Window. Trellis Work.

94 Monk and Newell, Ruabon, North Wales, and 14, Regent-road, Bootle, Liverpool.

Manufactures in Red, Buff, and Blue Terra-cotta.

95 R. and A. Main, Argyle Works, Glasgow.

Gas Ranges, Hearths, and Heating Appliances.

97 The Anglo-American Tin Stamping Co., Limited, Stourport, Worcester.

Stamped Seamless Tinned and Wrought-iron Holloware, plain tinned, bright tinned, and Japanned; also Enamelled Blue or Grey and White and Patent Mottled Ware.

98 The Hepworth Iron Co., Hazlehead, near Sheffield.

Glazed Stoneware Sanitary Tubes and Fittings, Glazed Sinks, Troughs, Vases, Flower Pots, Mignonette Boxes, &c. Best Furnace Fire Bricks, Blue Metal Building Bricks, Stable, Paving, and Wall Coping.

99 Oates and Green, Horley Green Fire Clay and Sanitary Tube Works, and Beacon Hill Fire Brick and Red Brick Works, Halifax.

Glazed Bricks, white and coloured. Enamelled Sinks, white and cane-coloured. Salt Glazed Sinks. Sanitary Horse Mangers and Troughs, of glazed earthenware. Traps for streets, yards, and houses. Chimney tops, for preventing down draught. Sundry Sanitary Tubes. Fire Bricks, Air Bricks, Gullies, Traps, &c., &c. Sink and Trap combined.

100 M. C. Duffy & Son, 66, Storks-road, London, S.E.

Immovable Acme Wood Block Flooring.

101 Edward Smith & Co., Coalville, Leicestershire.

Ornamental Floor and Wall Tiles. Embossed and Incised Tiles. Hand-painted Tiles. Hearth Tiles. Photographic Art Tiles. Decorated Tiles. Mosaic. Terra Cotta.

102 Edwards Bros., King-street, Fenton, Staffordshire.

White Granite Dinner, Tea, and Toilet Ware. Decorated Granite Dinner, Tea, and Toilet Ware. Decorated Earthenware (Ivory Body) Dinner, Dessert, Tea, and Toilet Ware. Decorated Earthenware (White and Ivory Bodies) Vases. Photograph and Picture Frames.

103 Maw & Co., Benthall Works, Jackfield, near Ironbridge, R.S.O., Shropshire.

Floor Tiles. Mosaic Pavements. Wall Tiles for dados. Fire-place Tiles. Art Tiles: Ruby Lustre. D'Oro Lustre. Persian. Pottery: Lustre, Persian, Majolica.

104 J. L. Thomasson, Corn Market, Worcester.

Thomasson's Multifidous Inlet Air Diffusers. The Floral Architrave for festive floral decorations, &c. Devices and Memorial Flower Holders. Jardinières and Firegrate Screen. Aquaria Tanks.

105 Joseph Brooke and Sons, Hipperholme, near Halifax, Yorkshire.

Glazed Bricks, Tiles, Porcelain Baths, Sinks, &c. York Stone.

106 Follows and Bate, Limited, Froxmer-street, Gorton, Manchester.

Knife-cleaning Machines, Mincing Machines, Vegetable and Suet Cutting Machines, Rapid Potato Mashers, Marmalade Cutting Machines. Salting Instruments. Coffee, Pepper, Spice, and Wheat Mills. Egg Whisks and Mixing Machines. Bread, Sugar, and Almond Grating Machines. Bread Cutting Machines. Potato Chip Machines. Tobacco Cutting Machines. Meat Presses. Lemon Squeezers. Box Churns. Patent Simplex Cask Stand or Stillage. Domestic Grindstones.

107 Shanks & Co., Tubal Works, Barrhead, N.B.

Bath (cast-iron), Plunge, Spray, Shower, Douche, and Sitz, with walnut woodwork complete. Shanks's Patent Copper Sitz Bath, fitted in wood cabinet. Large Cabinet Stand, with Lavatory and Marble Slab. Imperial and Citizen Baths. Imperial and Citizen Lavatories. Folding-up Lavatories and Urinals. School Lavatories. Combined Lavatories. Tubal Closets. Imperial Closets. Citizen Closets. Reliable Syphon and Double-Valve Cisterns. Automatic Urinals. Sinks. Samples of Brass Taps.

108 H. Sutcliffe & Co., 49, 51, and 53, Thomas-street, Shudehill; works, 110, Great Ancoats-st., Manchester.

Grocers' Tea Canisters, of various designs, ornamented in pearl, paintings, and gold work. Ornamental Vases, ornamented as above. Ornamental Coffee-Grinding Mill. Movable Relieving Pillar Scale. Agate Counter Scales. Weighing Machines. Sets of Weights of various kinds. Sack Truck.

109 Alfred Carter & Co., 10, South John-street, and 35, Norton-street, Liverpool

Enamelled Slate Wall Lining, in imitation of various marbles. Slate Cisterns. Slate Lavatory Top. Slate Housemaid's Sink. Slate Shelving for Greenhouses. Slate Manger.

110 William Dale, 50, John Dalton-street, and 45, Cannon-street, Manchester.

Ornamental Tiles for floors and walls, Tile Chimney Pieces, Tile Hearths, Tile Fenders, Art Tiles for furniture and decorative purposes. Ceramic Mosaics, &c.

111 W. & A. C. Russell & Co., Scotia Foundry, Athole-street, West Liverpool-st., Pendleton, near Manchester.

Cast-iron Mantel and Overmantel, with Balconettes in imitation of Pollard Oak (enamelled). Electro Bronzed Canopied Interior and dog grate to suit. Tile Hearth and Brass Fitted Fender and Furnishings. Cast-iron Mantel and Overmantel, with Balconettes in cream and gold, enamelled. Improved Canopied Hob Grate with Tiles, Tile Hearth, Fender, and Furnishings to suit. Cast-iron Mantel and Ornamental Walnut and Gold Enamelled. Tile Register, Tile Hearth, Fender and Furnishings. Cast-iron Combination Mantel and Overmantel in imitation marbles. Cast-iron Combination Mantel and Overmantel relieved in colours (enamelled). Cast-iron Mantel and Overmantel in black and best B. V. Bronze with Register, Tile Hearth, Fender and Furnishings. Cast-iron Combination Mantel and Overmantel relieved in colours. Tile Hearth and Fender to suit. Group Cast-iron Mantel Registers and Overmantels relieved in colours. Withington Patent Grate. Various Panels in imitation of Marbles, &c. Mirrors, Wall Brackets, Ornamental Castings, &c. Group of Cooking Ranges and Kitchen Mantels for coal and gas, with sundry Ornamental Artistic Iron Castings, enamelled and decorated.

112 John Armitage & Son, Lees-street, Great Ancoats-stret, Manchester; 140, Devonshire-street, Sheffield; works, Deepcar, near Sheffield.

Terra-Cotta Mouldings, and Ornamental Stringe ourses. Statuary, Balusters, Panels, Finials and Terminals. Roofing Ridge, and Garden Edge Tiles. Blue or Salt Glazed Sewer Bricks, Invert

Blocks, Sanitary Tubes, Fire Bricks, Chimney Tops, Vases, Trusses, and Fire Clay Goods. Art Painted, Enamelled, and Majolica Tiles, Glazed Tiles.

114 JOSEPH HAMBLET, West Bromwich, Staffordshire.

Staffordshire Blue Bricks, Copings, and Terra Metallic Pavings, encaustic and tessellated tiles, and red and buff terra cotta goods.

115 ROBERT ADAMS; works, 7, Great Dover-street; offices and Showrooms, 17, Blackman-street, Borough, London, S.E.

Spring Hinges, single and double action. Tongue Casement Bolt. Reversible Window for Cleaning, fitted with Triumph Sash Fastener. Pneumatic Fanlight Closer. Ratchet Fanlight Openers. Link Action Fanlight Openers. R. Adam's Patent Fanlight Centre. Patent Fanlight Gussett for the exclusion of draught. Patent Casements, Stays, &c.

116 JOHN WATSON, Globe Works, 2, Jordan-street, Little Peter-street, Knott Mill, Manchester.

Outside Sun Blinds, Venetian, Festoon, Art Cloth, Art Cane, Wire, Zinc, Art Glass and Cane Blinds.

117 G. M. MANSELL, Ward's Buildings, 47, Deansgate, Manchester.

Revolving Shutters, Brass Sashes, Window Blinds, Iron Guards, &c., Glass Pavement Lights, Leaded Lights and Ornamental Glass. Ventilators and Model Lift, Hoisting Apparatus, and Ornamental Ironwork.

118 JOHN MARSDEN, Varley-street, Oldham-road, Manchester.

Selection of Floor Cloths, finished and partly finished, showing the progress of cloth from the canvas to the finished article.

119 JAS. F. EBNER, Clerkenwell-road, London, E.C.

Ebner's Patent Hydrofuge System of laying parquet or wood blocks on concrete, stone, or ordinary fireproof constructions. A system of dovetailing the wood to the concrete by means of a hard-setting bituminous damp course. One-inch Solid Parquet for counter floors. $\frac{1}{4}$-inch Solid Carpet Parquet for existing floors. Parquet de Luxe. Art Joinery. Enamel Mosaic. Marble and other Mosaic Pavements. Improved Marble Terrazzo Pavements.

120 The Keighley Timber and Saw Mills Company and Planing, Moulding, Turning, and Steam-Joinery Works, Lawkholme, Keighley, Yorkshire.

Specimen Doors of steam machine make. Machinery-made Window Work, and other Joinery. Samples of Turnery. Samples and patterns of Mouldings and Architraves. Samples of the Day and Night Ventilating Architraves, Decorated Glass Window Screens, &c.

121 Craven, Dunnill & Co., Limited, Jackfield Works, near Iron Bridge, Shropshire.

Artistic Tiles, painted, printed, embossed, glazed, and enamelled. Ceramic Mosaic. Glazed and enamelled Ceramic Mosaics. Salopian Artistic Pottery.

122 Macniven and Cameron, 23 to 33, Blair-street, Edinburgh.

Waverley, Pickwick, Owl, Hindoo, Flying "J," and other Steel Pens. Steel Pens with turned-up points, turned-down points, oblique cut points, and with simple ink-carrying arrangement. Quill Yielding and Quill Spring Penholders.

123 "Onward" Publishing Office (W. P. Ingham, secretary), 18, Mount-street, Manchester.

Temperance Publications.

124 D. Alexander Merrin, Royal Exchange Printing and Publishing House, Strutt-street, Manchester.

Kindergarten Work. Merrin's Registered Paper-plaiting Demonstrator. Star Series Folding Papers. Boxes of Folded Objects and Forms and Stars. New Form and Colour Card. Miniature May Pole Plaiting.

125 John T. Clarke, 78, Faulkner-street, Manchester.

Indiarubber Endorsing Stamps, Type, and requisites. Copper and Wood Stamps. Whitby Jet Marking Ink. American Roller Composition.

126 James Spicer & Sons, 50, Upper Thames-street, Queenhithe, and 92, Long Acre, London; New Edmund-street, Birmingham; 20, Mount-street, Manchester.

Reams of Paper of various kinds, Fancy Box Stationery, Account Books, Envelopes, Show Cases of Fancy Papers.

127 H. and J. Lyons, 19, Park-street, Manchester.

Writing and Copying Inks, Blue-Black, Scarlet, and other Colours. Sealing Wax.

128 Samuel Moore & Son, 5, Duke-street, Cannon-street, Manchester.

Specimens of Bindings for Presentation, Addresses, and Testimonials. Specimens of Account Books in vellum, russia, morocco, and other bindings. Specimens of Letterpress Bindings.

129 John Heywood, Deansgate and Ridgefield, Manchester.

Bookbinding, Plain, Ornamental, Antique, and Richly Illuminated. Illuminated Addresses. Account Books, including Bank Ledgers, Invoice Books, &c., in russia, vellum, calf, and other bindings.

130 Novello & Son, 51, Corporation-street, Manchester; Gothic Chambers, Erskine-street, Liverpool; Nicholas Chambers, Newcastle-upon-Tyne.

Plain and Ornamental Writing for advertising purposes. Illuminated Writing. Patent Automatic Advertiser.

131 Young J. Pentland, 11, Teviot Place, Edinburgh.

Medical Publications. Anatomical Models and Preparations.

132 Shannon File Co., Limited, North Street, Moorfields, London, E.C.

The Shannon Letter and Bill File. Binding Case. Filing Cabinets. Roller Copier. Office Desks.

133 J. Curwen & Sons, 8, Warwick-lane, London, E.C.

Books and Diagrams for Teaching Music. Music in the Staff Notation and Tonic Sol-fa Notation. Tonic Sol-fa System of Teaching.

134 George Cussons, 13, Teneriffe-street, Strangeways, Manchester.

Wood Models for Teaching Art Drawing. Wood Models for Illustrating Geometrical Drawing. Wood Models for Teaching Machine and Building Construction. Other Appliances for educational purposes.

135 John J. Royle, 27 and 29, King-street West, Manchester; 13, Red Lion Square, London; and 57, Hope-street, Glasgow.

Assortment of Electro-plate and other Ware, showing the application of Royle's Patent Self-pouring system. Pendu Lights, for suspending a light from an existing gas bracket or chandelier. Tap Unions. Main Supply Filters. Argand Brackets. Pendulous Kettles and Food Warmers. Rapid Muller.

136 H. Fourness & Co., 116 and 118, Princess-street, Manchester.

Regenerative Gas Lamps, and Fittings for same.

137 The Wenham Co., Limited (Samuel Gratrix jun., and Bro., Agents); works, Upper Ogle-street, Fitzroy Square, London, W.

Regenerative and Ventilating Gas Lamps.

138 London and Manchester Reflector Co., 74, Oxford-street (St. Peter's), Manchester.

Day and Gaslight Reflectors, and Jewellers' Outside Reflecting Lamps.

139 William Wilson & Co., 50, 52, and 54, King-street, and St. James's Square, Manchester.

Wood and Marble Chimneypieces with Tile Hearths. Chandeliers for gas or oil. Decorative Metal Work. China and Stained Glass. Kitchen Ranges. Steam and Hot Water Heating Apparatus. Baths and Lavatories. General House Fittings.

140 Leech Brothers and Hoyle, 20 and 22, Old Millgate, and 8, Cannon-street, Manchester.

Carved Fumed Oak Chimney Piece, with Overmantel fitted with silver plaque with bevelled edges. Oil Finished Bright Canopied Interior Dog Stove, with bronzed canopy. Hand-painted Tile Slabs 18 × 36. All-Bright Abbotsford Dog Stove, with brass and bronze dog pillars. Tile Hearth to suit. Brass and Bronzed Fender Kerb. Set of Fire Brasses. Pair Brass Dogs. Carved Italian Walnut Chimney-piece, with Overmantel complete. Abbotsford Dog Grate, Bronze and Brass Canopy, Oil Finished Bars, Tile Sides, Bronzed and Brass Fender Kerb to match, Tile Hearth, set Fire Brasses, pair Dogs to suit. Decorated Chimneypiece with fluted Pilasters, Overmantel with shelves finished in cream white, All-brass Sides and Canopied Grate, Tile Hearth to suit, All-brass Fender Kerb to suit, set Fire Brasses, pair Brass Dogs. Jenné Lamartine Marble Chimneypiece, Register Dog Grate with Tile Sides and Bronze Canopy, Bright Bars, Tile Hearth to ditto, Fender Kerb, set Fire Brasses, pair Brass Dogs. Ornamental Iron Mantelpiece, with Overmantel, Mirror, and Brackets, Register Grate for ditto with plain brown Tiles and Brass Dogs, Brass and Black Fender Kerb, pair Dogs, set Fire Brasses, Tile Hearth. Nickel-plated Kitchen Range, with one Cast and two Wrought-iron Ovens, Wrought-iron Fittings, Fall Bar, Crow, Patent Plate Rack complete 5ft. 6in. × 5ft., Three-bar Kitchen Fender, nickel plated, 5ft. 6in., Kitchen Mantelpiece to suit, Smoke Jack with fittings, Tile Hearth. Leamington Range, with two Ovens, Tile Coves, Arch Plate, Dampers, Nickel-plated Mounts, 5ft. square, Three-bar Kitchen Fender, Nickel-plated, Kitchen Mantelpiece to fit ditto, Copper Stock Pot, Copper Stew Pan, each 8in. 10in. 12in., Tile Hearth for ditto. Polished Brass 5-light Chandeliers. Steel, Bronzed, and Relieved ditto. Ornamental Wrought-iron Chandeliers. Ornamental Wrought-iron Hall Lamps. Polished Brass ditto. An assortment of Gas Brackets. An assortment of Table Lamps. Clocks. Bronze Ornaments. Brass Candelabra. Wall Sconces. Ink Stands. Fire Screens. Coal Boxes in brass and wood with mounts.

141 Elliott, Edminson, and Olney, 79, Deansgate, Manchester.

Combined open and close Fire Kitchen Range, with tile covings, brass and nickel-plated fittings, &c., 5ft. by 5ft. Close Fire Kitchener, with two ovens and railed hot plate, brass fittings, and tiled covings, 4ft. 6in. by 5ft. Open Fire Kitchen Range, with black iron covings, one sheet iron low and one cast top oven, nickel-plated fittings, extended plate shelf, &c., 4ft. 6in. by 5ft. Open Fire Kitchen Range, with oven and hot hearth, extended plate warmer, &c., nickel-plated fittings, 4ft. by 4ft. 6in. Rosewood Chimneypiece, with Overmantel, fitted with Silvered Bevilled Mirrors, &c., Berlin Black and Brass Grate for ditto, with hand-painted tile slabs, Polished Brass Curb Fender to match. Mounted Tile Hearth, with art painted centre, fire dogs, brasses, and stop to match. Old Carved Brown Oak Chimneypiece, with Overmantel and Silvered Mirror; pair of Art Painted Tile Sides and Back, Tile Hearth to match. Berlin Black and Brass Dog Grate, Fender Curb to match, with rests, brasses, and stop. Brown Brocatella Marble Chimneypiece, with double Italian griotte marble columns and black carvings; Fine Finished Berlin Black and Brass Abbotsford Grate, with real bronze panels in curtain, and rich art painted tile slabs, Art Painted Tile Hearth to match, Curb Fender, with rests and fire brasses, to match. Statuary Marble Chimneypiece, with Jaune Larmatine reliefs and moulds, and onyx reliefs; Engraved Brass Grate, with art painted tile panels, Art Painted Tile Hearth to match, fender curb, rests, and brasses to match. Specimen sample of Roman Marble Mosaic Flooring. Assortment of Grates, with tile hearths and fenders to match. Marlboro' Grates, with tiles, to be seen in operation. National Range, to be seen in operation.

142 S. B. Sutcliffe & Co., Broughton Tile Works, Sherborne-street, Strangeways, Manchester.

Wood Chimneypieces, with over-mantels. Tile Fronts for fireplaces. Tile Panels for dog grates. Patent Tile Hearth and Fender combined, in one piece. Patent Tile Fender Kerbs. Tile Hearths. Painted Tiles. Dutch Tiles. Specimens of Tiles. Dog Grates. Interior Grates. Register Grates, shown along with Tile Work.

143 Charles Wilson & Sons, Carlton Works, Exeter Place, Leeds.

Gas Cooking and Heating Stoves. Gas Fires electro-nickelled, brassed, or bronzed. Greenhouse Boilers, Tailors' Irons, and Stoves heated by gas.

144 James Stott & Co., 10, Market Place, Manchester.

Gas Governor. Stop Valve, for prevention of gas explosion. Smoke Collector for Gas, Oil, and other lights. Lamps, Shades, and Globes.

145 J. M. Bennett & Sons, Hyde-road, Ardwick, Manchester.

Cast-iron Altar-piece, enamelled in different marbles, with cast-iron crucifix and candlesticks in electro, brass, and nickel. Cast-iron

High Altar-piece, painted, with cast-iron crucifix and candlesticks in electro, brass, and bronze. Specimens of Cast Ironwork and Enamelling.

146 THOMAS SANDS HATTERSLEY, 2, Central Buildings, Oldham-street, Manchester.

Cricket, Lawn Tennis, Football and Lacrosse Goods.

147 THOMAS HEPPLESTONE, 25, Shudehill, Manchester.

Guns, Rifles, Revolvers, and Pistols. Fittings and Implements for guns, rifles, and pistols, and cases for ditto.

148 JOHN WILSON, Jun., Erskine-street, Hulme, Manchester.

Gymnastic Apparatus (fittings and utensils), consisting of parallel and horizontal bars, jumping stand, trapeze bars, ropes and rings, apparatus for family use, climbing ropes and poles, Indian clubs, dumb bells, rings, bar bells, boxing gloves, foils and masks.

149 HENRY WHITTY, 15, Basnett-street, Liverpool, Lancashire.

Fishing Tackle. Split Cane Rods. Flies and Baits and Material used in modern fishing. Rackets, Toboggins, La Crosse and other Canadian games.

150 GIDDINGS AND DACRE, Junction Lead, Paint, and Brass Works, Ducie-street, Whittles Croft, and Mather-street, London-road, Manchester.

Sanitary Ware and Iron Enamelled Goods. Chandeliers and Gas Fittings. Bar Fittings. Ornamental Lead Lights. Paints and Dry Colours. Sheet Lead, Lead Water, and Gas Pipe.

151 CO-OPERATIVE WHOLESALE SOCIETY LIMITED; central office, 1, Balloon-street, Manchester; works, Dun's-lane, Leicester, and Heckmondwike, Yorkshire.

Boots and Shoes.

152 MERIEUX AND BEAULIEU FILS (agent, Oswald Pike, 79, Piccadilly, Manchester), Bos de Moulin, près Limoges, France.

Rabbits' Fur (or Coney Wool) for the making of Felt Hats.

153 JAMES REDFERN & SON, 75, Market-street, Manchester; manufactory, 1, Dantzic-street.

Toilet Brushes and Combs. Household, Warehouse, and Stable Brushes and Sponges. Chamois Leathers and Razor Strops. Miscellaneous Brushware. Shirt Studs, Links, and Solitaires. Processes of manufacture illustrated.

154 WILLIAM HOLLAND & SONS, Victoria Mills, Miles Platting, Manchester.

Wool in its raw state, also scoured, carded, combed, and prepared for spinning. Combed Botany Yarns, in all counts up to 100's, spun on the French system entirely without oil. Cannettes for weft. Warp Yarns (for French cashmeres, &c.), single and two-fold, in cops, on bobbins, and on beams, sized. Cashmere Hosiery Yarns, in all counts.

155 WILLIAM ROBERTSON, Eildon Mill, Galashiels, N.B.

Scotch Tweeds and Rugs.

156 JAMES BARTON & Co., Palace Buildings, 93, Market-street, Manchester.

Travelling Rugs and Mauds.

157 BRIGGS PRIESTLEY & SONS, Albion Mills, Laister Dyke, and Dole Mills, Thornton, Yorkshire.

Silk and Wool Dress Fabrics for Gentlewomen.

158 BUTENBERG, HEUSCH, & Co., Aix-la-Chapelle, Germany.

Pyramid constructed of Berries, made of toilet pins with glass heads, of different colours. Machine and other Needles.

159 SAMUEL PORRITT & SONS, Bamford Woollen Mills, near Rochdale.

Flannels, Baizes, Kerseys, Machine Cloths, Plaidings, Tweeds, Ironing Blankets. Paper Makers' Felts, Jackets, Water Bagging, &c. Printers' Blanketings, Tapes, Endless Sieves, Lappings, Cotton Manufacturers' Roller, Clearer, Washer, and Sizing Cloth, Flannel, &c. Saddlers' Loin Cloths, Cart Sheetings, &c.

160 JAMES CARR & SONS, Clarence Mills, Clarence-street, Chester-road, Manchester.

Patent Woven Ladder Tape and other Tapes and Cords for Venetian Blinds. Fringed Edgings and Bindings for Curtains and Tapestries. Worsted and Cotton Bindings for Army and Navy purposes. Cotton Banding and Washer Cloth for Mill Furnishing. Other various Bindings and Smallwares for haberdashery purposes.

161 ROBERT BYROM, Slackcote Mills, Delph, near Manchester.

Fancy Reversible and other Shawls, made from Wool, Vicugna, and Cashmere.

162 JAMES BARTON & Co., Palace Buildings, 93, Market-street, Manchester.

Woollen Goods.

163 The Lancashire and Yorkshire Productive Society, Limited, Hare Hill Mills, Hare Hill-road, Littleborough, near Manchester.

Flannels, in Plains and Coloureds. Self and Coloured Lancashires and Yorkshires, Saxonies, Electorals, Cricketing and Footballing Flannels, &c., &c.

164 Paul Schulze, 19, Greenwood-street, Manchester.

The Home-Knit Oriental (Smyrna) Rug, and the materials required (Smyrna Wool, Smyrna Cotton, Designs, &c). Process of making the same (hand-knitting). Also, Silk Wool Yarns, for Embroidery and Knitting.

165 John White and Co., The Shetland Warehouse, 10, Frederick-street, Edinburgh.

Shetland Wool Manufactures: Lace Shawls, Veils, Scarfs and Ties, Warm Wrap Shawls, Clouds, Hosiery and Underclothing, all hand-knitted by the women of Shetland. Specimens of Shetland Undyed Home-spun Tweeds. Fair Isle Manufactures: Cowls, Caps, Comforters, Gloves and Stockings, hand-knitted by the natives of Fair Isle, who were taught the curious patterns and colours by the survivors of the Spanish Armada Flagship wrecked there in 1588.

166 George Lee & Sons, Limited, Wakefield, and 81, Cannon-street, Manchester.

Scotch Fingering Wools, Knitting Wools. Specimens of Wool in the raw state and in process of manufacture.

167 McLintock & Sons, Utilitas Works, Barnsley.

Down Quilts and Clothing, Pillows, Tea Cozies, &c.

168 Finlayson, Bousfield, & Co., Flax Mills, Johnstone, Scotland, and Grafton, United States.

Linen Threads, from the rough flax to the finished thread, including all kinds of linen threads for machine and hand-sewing, and for domestic use. Macramé, Linen Crochet, Lace, Flourishing Threads, Salmon Net, and Gilling Twines. Shoe Threads, and all classes of Threads for the Boot, Saddling, and Leather Trades. Bookbinders', Carpet, and Glove Thread. A Ball of Three-cord Sewing Machine Thread, containing 54,000 yards, or a knotless thread 30 miles in length. Specimens of Flax in the various stages of manufacture.

169 Smith Brothers & Co., 1, Forbes-place, Paisley.

Fine quality of Silk and Wool Shawls, also Figured Velvet Shawls.

170 Cooper, Corah & Sons, St. Margaret's Works, Leicester.

Collection of Ladies' Jersey Jackets, Girls' Jersey Costumes, Boys' Jerseys, and Jersey Suits, Men's Yatching and Football Jerseys. Ladies and Gentlemen's Hosiery. A collection of Fancy Woollen Hosiery, Underclothing, &c.

171 Buser and Keiser, Laufenbourg and Liestal, Switzerland. Depôt and Shipping Office; E. Buser, 8, York street, Manchester.

Elastic Knit Ribbed Underclothing in silk, wool, and Lisle.

172 Fleming, Reid & Co., The Merino Mill, Greenock.

Knitting Machines at work. Scotch Fingering Yarns. Double Knitting and Wheeling Yarns. Berlin Fingering Yarns. Double Berlin Yarns, and Welsh Wool. Stockings, Socks, Ladies' Underclothing, Jerseys, Jersey Suits, Tam-o'-Shanters, Skirts, Tidies, Sofa Rugs, Shawls, Knee Caps, Gaiters, Gloves, Caps, and all kinds of hand-knitted Fancy Work.

173 William Stirling & Sons, Glasgow, Dalquhurn, and Cordale Works, Renton, Dumbartonshire.

Turkey-red Twills, Cambrics, Shirtings, Mulls, Doriahs, Dimities, Velvets, Lace Curtains, Printed Bed Quilts, Printed Garments, Indian Dresses, Malay Sarongs, Handkerchiefs, Printed Velvets. Cloth in various stages of preparation for Turkey-red. Turkey-red Yarns. Scarlet, Rose, Pink, and Purple Yarns. Yarn in various stages of preparation for Turkey-red.

174 J. W. Singer & Sons, Art Metal Works, Frome, Somerset.

Art Metal Work, in silver, brass, and iron, for ecclesiastical and domestic purposes.

175 T. C. Brown-Westhead, Moore, & Co., Cauldon-place, Staffordshire Potteries.

China and Fine Art Pottery.

176 Joseph Rodgers & Sons, Limited, 6, Norfolk-street, Sheffield.

Table Cutlery and Cases. Silver-mounted Carvers. Pocket, Pen, Sporting, and Pruning Knives. Scissors. Cases of Scissors and Ladies' Work Cases. Razors. Cases of Razors and Strops. Daggers, Hunting, and Sheath Knives, &c. Electro-plated and Silver Fish Knives and Carvers. Dessert Knives and Spoons, Forks and Spoons. Tea and Coffee Services, Trays, &c., and Electro-plate in every branch of the trade.

177 The Glass Decoration Co., Limited, 82, Hatton Garden, London, E.C.

Process of Gilding by Precipitation of Pure Gold on Glass for friezes, walls, dados, ceilings, facias, mirrors, screens, and other decorative purposes, embellished with a permanent process of under-surface painting. Specimens of Patented Frost and Fern Work. Crystalline Glass, plain, gilded, and silvered for commercial and domestic uses.

178 WILLIAM MERCHANT & SONS, 43, Piccadilly, Manchester.

Straw Plaits, Hats, Bonnets, Leghorns, &c. Ladies' Felt Hats, Ostrich and Fancy Feathers, &c.

179 DR. SALVIATI & Co., 213, Regent-street, London.

Venetian Enamel Mosaic for exterior and interior permanent decoration, and Venetian Blown Glass for table and ornamental use. Chandeliers and Brackets for gas, candles, and electric light. Mirrors, Beads, Stained Glass for windows.

180 LUDWIG MOSER, Bohemian Glass Manufactory, Carlsbad and Meistersdorf.

Finest Bohemian Glass, in crystal and coloured glass. Carlsbad Glass Jewelware, in enamel and engraved drink services, &c., &c.

181 GINO LOFIEGO, 57, Dora Grossa, Turin, Italy.

Majolica and Venetian Glass and painting on China.

182 BRITISH AND FOREIGN BIBLE SOCIETY; Manchester Auxiliary, Religious Institute, 100, Corporation-street, Manchester.

The Holy Scriptures, in more than one hundred languages and dialects; used in the Colonies and Dependencies of the British Empire and elsewhere. Translated and printed by the Society.

183 THE IPSEN TERRA COTTA AND FINE ART POTTERY (Arup Bros., Managers), Copenhagen and London, 120, New Bond-street, W.

Artistic Terra Cotta, Vases, Statuettes and Reliefs.

184 JOHN BACON & Co., 16, 18, 20, and 22, St. Ann-street, Manchester.

Devonshire Lace Workers, showing the process of making Honiton Lace. Collections of Modern Honiton, Flemish, and other Laces. Specimens of Antique Laces. Artistic designs for Fans. Collection of modern Fans. Specimens of old Hand-made Hosiery. Collection of Modern Hosiery. Specimens showing designs and improvements in Gloves.

185 JAMES AND JOHN M. WORRALL, Ordsall Dye Works, Salford.

Samples of Bleached, Dyed, and Printed Cotton Velvets, Velveteens, Cords, Moleskins, Plush, Twills, Silk Velvet, and Silk Plush.

188 HORROCKSES, MILLER, & Co., Preston, Lancashire.

Model of Factories

189 THE WORCESTER ROYAL PORCELAIN CO., LIMITED, The Royal Porcelain Works, Worcester.

Vases, Ewers, Busts, Figures, Statuettes, &c.

190 MANCHESTER SHIP CANAL CO., Deansgate, Manchester.

Model representing the Course of the Manchester Ship Canal, and the adjoining country, on a scale of one foot to the mile. The Canal commences at Eastham, near Liverpool, passing along the Cheshire side of the Mersey Estuary to Ellesmere Port, the Docks at Weston Point and Runcorn, and thence to Warrington and Manchester, where large docks will be constructed. The Canal will be of the same depth as the Suez Canal, but much wider, so as to allow two of the largest class of steamers to pass at any part of the Canal. The Canal will be 35 miles in length, and, near Manchester, will take in the whole of the waters of the rivers Irwell and Mersey.

191 ROYAL NATIONAL LIFEBOAT INSTITUTION, 14, John-street, London; Manchester branch, 9, Albert Square.

Models and Drawings of Lifeboats and Specimens of Cork Lifebelts. Model of Safety Fishing Boat, introduced by the Royal National Lifeboat Institution. Specimens of the Liquid Boat Compass, as used in the Lifeboats of the Institution. One of the Models represents a Self-righting Lifeboat, 37ft. by 8ft., fitted with Water Ballast. This consists of a series of tanks amidships, which can be filled with water or emptied at will in the space of one minute. The object is to increase the ballast and immersion of the boat, and consequently her draught of water and stability, when circumstances admit of so doing without materially increasing her fixed weight for land carriage or her draught of water when launching or in very shallow water. The water is kept as nearly amidships as possible in the boat, and the tanks are separate, so that one or more may be filled as the case may require. There is also a Model of a Self-righting Lifeboat, 39ft. by 9ft., fitted with a Sliding Keel, which materially increases her stability and weatherly qualities whilst in deep water without sacrificing the flat floor and light draught so necessary when in shallow water. The sliding keel can either be lowered to its full extent at both ends, or it can be triced up at either end or put in any desired position. [N.B. see also the Lifeboat and Carriage, Stand 684, in the grounds east of Machinery Annexe.]

192 JOHN CROOK AND SONS, Pleasure Boat Inn, Ribble Side, Preston.

Double Sculling Skiff, built of cedar, with gratings fore and aft; Brampton's patent rudder hangings, complete, with oars, skulls, boathook, &c. Double Fowling Punt, with centre board, with all fittings complete, including Holland's breechloading swivel gun. Model Double Fowling Punt, scale 3 inches to the foot.

193 INMAN AND INTERNATIONAL STEAMSHIP CO., LIMITED (RICHARDSON, SPENCE, & Co), Tower Buildings, Water-street, Liverpool.

A Model in case of the R.M.S. City of Chicago.

194 THE MANX LINE, THE ISLE OF MAN, LIVERPOOL, AND MANCHESTER STEAMSHIP CO., LIMITED, 3A, Brunswick-street, Liverpool, and Douglas, Isle of Man.

Model of The Manx Line Steamship Queen Victoria, built by William Pearce, Fairfield Works, Glasgow. Speed, 21 knots. Dimensions: Length, 330ft.; breadth, 40ft.; depth, 16ft. Engines, I.H.P. 6,500.

195 CAYZER, IRVINE, & CO., 109, Hope-street, Glasgow; 40, Chapel-street, Liverpool; Leadenhall Buildings, London; 4, Albert Square, Manchester.

Model of Vessel, Clan Macarthur. Material, steel. Description, schooner; tonnage, 3,984; dimensions in feet, length 381, breadth 43, depth 27; I.H.P., 2,376; engines inverted direct-acting compound cylinders, 48in. and 86in; stroke, 60in; boilers, 2; furnaces, 12 corrugated; builders and designers, Scott and Co.; year when built, 1883; owners, exhibitors; trade, Indian.

195A HUGHES & YOUNG, 75, Thomas-street, Manchester.

State Umbrella for Alikaleh Dowdah, King of the Moriah Country, West Coast of Africa.

195B DOULTON & CO., 17, Deansgate, Manchester.

Glazed Terra Cotta Fountain.

195C RICHARD JOHNSON, CLAPHAM & MORRIS, 24 and 26 Lever-street, Manchester.

Wire Lathing Cottage, constructed with fireproof wire lathing, and iron and wire fireproof cavity partition walls. Paper Machine Wires; Dandy Roll, Backing Wire, and Washer Wire, for paper manufacturers. Trophy of Brass, Copper, Steel, and Lead Wire Cloth, 10 to 120 mesh per square inch, for various purposes. Trophy of Iron, Steel, and Copper Machine Woven Wire, for mines, maltkilns, &c. Flattened Steel Wire Cloth for mines, maltkilns, &c. Trophy of Wire Sash, Clock and Picture Cords. Trophy of Brass, Tin, Black and Fancy Boot Lace, and other Tags. Models of Flat and Revolving Wire Colliery Screens. Miners' Safety Lamps, Deflector, Mueseler, Johnson's, Improved Marsaut, and other patterns. Electric Miner's Lamp, Howat's patent. Patent Lamp Trimmer's Friend, and Lamp Table. Miner's Shovel and Barrow Trundle, found in some ancient workings for coal near Great Harwood. Two Phosphor Bronze Propellers for Launch and Torpedo Boat. Finished Propeller Bolt. Mill Bearing and Slide Valve, both worn. One Pump Rod, finished. Phosphor Bronze Ingots, part polished to show colour. Phosphor Bronze Tubes, Rods, Sheets, &c. Steam Fittings, and other finished specimens of Phosphor Bronze Wire Rope, Patent Silicium Bronze Telephone and Telegraph Wire.

196 John Mallabone, 29, Leonard-street, Finsbury, London, E.C.

Adjustable Folding Chair. Box Ottoman Settee.

197 J. Harrington & Co., Cradle Spring and Tube Chime Works, Coventry.

Cradle Springs for Chairs and Carriages. Tube Chimes for Village Churches, Public Buildings, Clocks, Domestic Gongs, Electric Calls, &c.

198 C. J. Mudie, 9, Mount Pleasant, Liverpool; 17, Piccadilly, Manchester.

Ostrich Feathers. Aigrettes. Fans. Mantures and Garnitures.

199 Percival, Vickers, & Co., Limited, Jersey-street, Manchester.

Vases, Engraved Bottles, &c. Sets of Cut Table Glass, as wines, tumblers, basins, dishes, compotes, decanters, claret jugs, water jugs, flower stands, sugars, celeries, and other useful and artistic articles; also Press Glass of like nature.

200 Stevens and Williams, Brierley Hill Glass Works, near Stourbridge.

A Collection of Art Glass Ware, comprising cameo glass, gold decorated glass, rock crystal, cut and engraved glass, and specimens of advanced glass making in colours, &c.

201 Association of Carlsbad Glass Manufacturers, Carlsbad, Bohemia.

Bohemian Glass, speciality of New Persian Decoration.

202 Erlaucht Graf von Harrach'sche Glasfabrik (Count Harrach's Glassworks), Neuwelt, Bohemia, Austria.

Flint, Crystal, engraved Coloured Bohemian and Venetian Glassware, in Table, Ornamental Gas, Kerosene and Electric Goods, Paintings on Glass and China.

203 Procter & Co., 428, Oxford-street, London, W.

Indian Gold, Gem, Enamelled and Silver Jewellery. Carved Furniture, Carpets and Rugs, Silk and Cotton Hangings, Gold and Embroidered Hangings, Table Covers, &c., Mirror Foulcarries, Arms, Metal Work, Gold and Steel, Silver and Copper, Silver and Iron, Carved and Inlaid Boxes, Decorative Pottery, Carved Ivories.

204 Kensington School of Art Embroidery, High-street, Kensington, London, W., and Belgrave Mansions, London, S.W.

Assortment of Ecclesiastical and Domestic Needlework, Rugs, &c., made by the Patent Home Carpet, Rug, and Mat Machine.

205 JOHN AND RICHARD SHELDON, Leek, Staffordshire.

Silk and Mohair Braids for Military, Gentlemen's, and Ladies' Wear.

206 ANTHONY WARD & Co., Albion Mills, Leek, Staffordshire.

Braids of Mohair and Silk Mixed with Mohair, suitable for Military, Clothiers, Clothing Manufacturers, &c. Laces of Silk, Mohair, and Cotton.

207 RICHARD JOHN TURK, Thames Side, Kingston-on-Thames.

Canadian Canoe, our own build, in cedar, with American elm timbers, paddles, plush cushions, &c.

208 THE LANCASHIRE FELT CO., LIMITED, Denton, near Manchester

Australian Sheep's Wool in the Grease. Australian Sheep's Wool Washed. Australian Sheep's Wool Washed and Carded. Felts made from same for hatting purposes. English Rabbit Fur and Felts made from same for hatting purposes, &c.

209 JOHN CHEETHAM & SONS, Kingston Hat Works, Hyde, near Manchester.

Felt Hats for home and exportation.

210 NATHANIEL JACOBSON, Clarence Hat Works, Dutton-street, Cheetham, Manchester.

Tweed Hats, Caps, and Helmets. Historical Sketches of Head Coverings from before the Roman Conquest down to early part of Nineteenth Century.

211 SAMUEL MILLS, Vauxhall Hat Works, Rochdale-road, Manchester.

Silk Hats, Pullovers, Felts, Merinoes, Helmets, Hunting Caps, Opera Hats, Liveries, and Storm Hats.

212 TITANCRETE COMPANY, 8, Deansgate, Manchester,

Fire-proof Flooring for mills, &c. Columns for mills. Girder, Shutter-Steps. Props for Collieries. Doors for mills, warehouses, &c. Tanks and Baths for domestic purposes.

213 VVE. MERCIER LECLERC, 19, Rue de Berulle St. Mande, Paris.

Needles and Needle Cases.

214 THOMAS BRIGGS, 21, Mavor-street, Manchester; factories, 2 and 4, Southgate-road, London, N.; Richmond Hill Works, Salford; Springfield Works, Salford; Globe Twine Mills, Leeds; Barrow Flax and Jute Works, Barrow-in-Furness.

Jute Yarns and Jute Fabrics. Hemp and Jute Twines and Cords. Waterproof Fabrics, for lining bales and cases of goods for shipment.

Brattice Cloth and Wagon Covers. Floor Oil Cloths. Printed Jute Rugs.

215 HANSON, SCOTT, & Co., Croft Flax Mills and Rope Works, Stockport.

Cotton Driving Belts and Mill Bandings. Ropes, Cordage, Twines. Grey, White, and Coloured Cotton.

216 POST OFFICE.

216A HER MAJESTY'S POSTMASTER-GENERAL.

Telegraphic Apparatus used by the various Telegraph Companies prior to the acquisition of the telegraphs by the Government in 1870. Also the modern apparatus now in general use by the post office, and specimens of Submarine Cables.

217 LANCASHIRE AND CHESHIRE TELEPHONIC EXCHANGE CO., LIMITED.

Public Telephone Call Office and Switch-room.

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Photographs.

219 GEORGE FAULKNER ARMITAGE, Stamford House, Altrincham.

An Entrance Hall furnished in carved oak, with a staircase. A Living-room in dark mahogany, with wall panelling and a modelled frieze decorated, rich silk curtains, wrought silver electric-light fittings. Sitting-room on first floor. A balcony furnished with antiquities and curiosities.

220 NEVILLE CLEGG, Oldfield Brow, Altrincham.

Type of ordinary Artisan's Living Room, Bedroom, and Parlour, suitable for persons of limited means, from designs by Mr. G. F. Armitage, of Altrincham. The Furniture made by A. W. Simpson, Kendal; the Kitchen Range and Utensils, by J. M. Leigh and Sons, Deansgate, Manchester; Kitchen Floor, laid by Wm. Clapham, Bramhall Park, Stockport; Kitchen Sink, to permit of washing clothes, by Doulton & Co., Lambeth; Parlour Stove, by ditto.

221 S. LEAROYD, Huddersfield.

Precious Stones, Agates and Minerals. This collection is believed to contain the natural crystals and cut and facetted specimens of every known precious stone. It also contains a large number of

semi-precious stones, and of interesting and attractive minerals. The entire series has been brought together and arranged by Samuel Learoyd, Esq., F.G.S., of Sherwood House, Huddersfield, to whom any inquiries may be directed by visitors and collectors interested in the specimens. The cases include contributions kindly lent from the cabinets of the Baroness Burdett-Coutts, of Holly Lodge, Highgate; Colonel Rimmington, Lynton House, Upper Norwood; Professor Church, M.A., Professor of Chemistry at the Royal Academy; Mr Samuel Learoyd, F.G.S., Huddersfield; and Mr J. R. Gregory, of 88, Charlotte-street, Fitzroy Square, London. The collection of the Baroness Burdett-Coutts includes—(1) A large and valuable series of cut and polished agates. (2) An interesting collection of various forms of jasper. (3) Crystals of emerald. (4) Crystals of aquamarine. (5) Crystals of tourmaline. (6) Crystals of Thur of very rich colour. Professor Church's collection consists of 300 gem stones, mounted as rings, many of them of great rarity and excellence, including various specimens of the following gems: Sapphire, ruby, spinel, turquoise, topaz, tourmaline, garnet, peridot, emerald, aquamarine, chrysoberyl, phenakite, zircon or jargoon, spodumene, opal, amethyst, eolite, moonstone, crocidolite and labradorite. Colonel Rimmington's collection contains very choice and valuable specimens of the following precious stones, crystals, and minerals, as found, and cut and facetted as gems—diamonds and sapphires of all colours, rubies, spinel ruby, chrysoberyls, cat's-eyes, alexandrites, topazes of all colours, tourmalines, rubelites, zircons, opals in great variety, andalusite, peridot, essonites, garnets, including the rare green stones, amethysts, moonstones, beryls, phenakite, idocrase, quartz in various forms with various enclosures, chrysoprares, orthoclare, adularia, dioptare, amazon stone, cotterite, jasper, agates, labradorite, sunstone, lapis lazuli, hypersthene, microcline, amber, &c. Mr. Samuel Learoyd's collection includes a series of Indian Mocha stones, consisting of crystals of manganese in translucent chalcedony. A collection of modern onyx cameos, in which is included a number of shell cameos. In several of these specimens the artist has, in cutting the cameo from one solid piece of stone or shell, availed himself of three different layers of colour, and has thus produced complexion and other effects, no artificial colour being used. A varied collection of tourmalines in the natural crystals from different parts of the world. A series of specimens of labradorite, also of fibrous quartz and brocidolite, showing a brilliant play of varied colours. A collection showing the various forms and colours of quartz in the natural and cut state, including pure rock crystal, cairngorms, amethysts, chrysopraus, &c. Collections of Indian, American, Scottish, and English agates. An interesting series of Cumberland and Cornish minerals. Mr. Gregory's collection contains gems and precious stones, exhibiting nearly all the varieties of colour and the general character of each stone, including many newly-introduced gems, some of extreme rarity and beauty, and other stones and minerals adapted for ornamental purposes; also a collection of 24 examples of imitation precious stones, showing the most typical colour and usual

mode of cutting each stone. Also a series of 24 models of the large historical and other diamonds, of which the following are the detailed particulars: (1) The Stewart (weight $288\frac{7}{8}$ carats), found in 1873, at Waldek's Plant, Vaal River, South Africa; uncut. (2) The Great Nizam (weight 440 carats), supposed to have been destroyed during the Indian Mutiny in 1857-8. Native cut. A plaster cast of this stone was forwarded to the British Museum by an English officer. (3) The Star of the South (weight $254\frac{1}{2}$ carats), found by a negress in 1853, at Bogagem, in the province of Minas Geraes, Brazil. Uncut. (4) The Tuscan. (5) The Mattam, found in 1760 at Lavidak, Borneo. Belongs to the Rajah of Mattam in Borneo. (Weight 367 carats.) (6) The Regent, or Pitt. Bought for £135,000. Belongs to France. (Weight $136\frac{3}{4}$ carats.) (7) The Great Mogul (weight 279 carats.) (8) The Kohinoor. Before re-cutting presented to Queen Victoria by the East India Company. (Weight $186\frac{1}{16}$ carats.) (9) The Kohinoor recut. (Weight $102\frac{13}{16}$ carats.) (10) The Star of the South after cutting (weight 125 carats.) (11) The Orloft. Belongs to Russia, formerly in the eye of an idol in India. (Weight $194\frac{1}{4}$ carats.) (12) Mr. Dreszden's Drop, the property of the Guicowar of Baroda. (Weight $76\frac{1}{2}$ carats.) (13) The Florentine. Belongs to Austria. (Weight $139\frac{1}{2}$ carats.) (14) The Nassuc. The property of the Duke of Westminster. Was sold by auction in 1820 for £7,200. (Weight $89\frac{3}{4}$ carats.) (15) The Star of South Africa, found in 1869; the property of the Countess of Dudley. (Weight $46\frac{1}{2}$ carats.) (16) The Pigott. Sold by lottery early in this century. Belongs to Egypt. (Weight $82\frac{1}{4}$ carats.) (17) The Shah. Belongs to Russia. (Weight 86 carats.) (18) Mr. Hope's Blue Diamond. The property of the Duchess of Newcastle. (Weight $44\frac{1}{2}$ carats.) (19) The Jehan Ghir Shah. This stone is engraved with two monograms. (Weight $115\frac{9}{16}$ carats.) (20) The Polar Star. Belongs to Russia. (Weight $40\frac{1}{4}$ carats.) (21) The Green Diamond. In the green vaults at Dresden. (Weight $48\frac{1}{2}$ carats.) (22) The Eugenie. Purchased by the Emperor Napoleon III. (Weight 51 carats.) (23) The Saucy. Formerly belonged to Prince Demidoff. (Weight $53\frac{1}{2}$ carats.) (24) The Cumberland. Presented to the Duke of Cumberland by the City of London. (Weight 32 carats.) Names and descriptive labels will be placed upon the several specimens. The following notes are added with a view of interesting those who are not familiar with the minerals. The diamond consists of pure carbon crystallised. It is the hardest known stone, but is readily cleaved. Diamonds are found of all colours, brown, green, blue, &c., though the diamond of commerce is usually colourless. It has the purest lustre of any known stone. The sapphire, ruby, Oriental amethyst, and Oriental topaz are the same mineral with varying natural colours. They consist of crystallised alumina, or clay. The tint of the ruby is due to peroxide of iron, and that of the sapphire to protoxide. The star in the star rubies and sapphires is due to the structure of the crystal. The best Oriental sapphires retain their colour by gas light, whereas the less valuable become dark and dull. Sapphires are found of all colours, and several white,

yellow, green, and grey sapphires will be found in the collection. The turquoise derives its name from the country through which it was imported. It is translucent. It often becomes green by age. The rich colour is due to copper and iron oxides. The emerald, beryl and aquamarine, are the same stone of varying depths of colour. The garnet includes essonite, cinnamon stone, alamindine, carbuncle, pyrope, and green garnet. The opal is a variety of silica. It is a colourless stone, the rich play of light being due to fractures and fissures in the stone. Quartz includes the amethyst, which is naturally coloured by manganese, chrysoprase coloured by nickel, rose quartz coloured by titanium, cairngorm coloured by oxide of iron, and pure rock crystal. Agates consist of alternating layers of differently coloured chalcedony. The different forms of agate are known as fortification, ribbon, zoned, brecciated, moss, rye, variegated and Mocha stones. Jasper consists of opaque chalcedony variously coloured.

222 H. Scott Richmond & Co., 30 and 31, Paternoster Square, and 13, Rose-street, London, E.C.; 127, Fifth Avenue, New York; Temple Court, Collins-st. West, Melbourne; 1747, Notre Dame-st., Montreal, Canada.

Wall Papers, Silks, Brocatelles, Brocades, Printed Stuffs, Muslins, Velvets, and other fabrics for house-furnishing and decoration.

223 Storey Bros. & Co., White Cross Mill, Lancaster.

Tectorium. A sanitary and washable wall decoration in oil colours upon cloth. Queen's Leather. A new waterproof and grease-proof imitation of leather, and substitute for rubber cloth, for the upholstery, bookbinding, and shoe trades, and for other purposes. Anaglypta. A modelled decorative fabric in solid and semi-solid relief, for wall, ceiling, and other decorative purposes.

224 Joseph Hunter & Co., 20, 16, and 12, St. Mary's Parsonage, Manchester.

Library, Study, and Office Furniture, Secretaire Bookcases, Registered and Cylinder Writing Tables, Cabinet Washstands, &c. English, American, and Austrian Chairs. Two (hand-worked) Needlework Screens.

225 Century Guild of Artists. Mackmurdo and Horne, architects, 28, Southampton-street, W.C., London; Goodall & Co., agents and manufacturers, 15, King-street, Manchester.

Drawing Room, including Furniture, Sculpture, Painting, Carpets, and Fabrics, designed by the Century Guild of Artists, and executed by its Agents, Messrs. Goodall & Co., 15, King-street, Manchester.

226 E. Goodall & Co., 15, King-street, Manchester.

Suite of Furnished and Decorated Rooms. On ground floor: Entrance hall, drawing room, boudoir or writing-room, dining-room. On first floor: Landing; bedroom, furnished in mahogany. The draperies for this room are designed and executed by the Royal School of Art Needlework, South Kensington. Small bedroom, furnished in Circassian ash. The draperies for this room are also designed and executed by the Royal School of Art Needlework, South Kensington.

227 W. and J. S. Collinge, 110, St. James-street, Burnley.

Pollard Oak Dining Room, in the Modern Renaissance style. Sideboard, with break front, the pedestals enclosed by richly moulded and carved doors, bevelled glass in back, with ornamental cupboards at sides, and a moulded and carved pediment. Massive Mantelpiece, with turned and carved columns and overmantel to match, and all accessories. Fender, Hearth, &c. Telescope Dining Table. Window Table. Couch and Chairs. Carpet and Hearthrug. Window Curtains and Pole. Pollard Oak Hat and Umbrella Stand. Bedroom Suite, in walnut, with figured Italian walnut panels and carved reliefs, in the Modern Renaissance style. Wardrobe, with large bevel mirrors at sides, drawers in centre, with projecting cupboard over. Pedestal Dressing Table, fitted with drawers, cupboards, and bevel mirror. Washstand, with tiles in back. Suitable Mantel and Glass, with all accessories. Fender, Hearth, &c. Persian Bedstead, with carved panels, moulded and carved cornice, movable brackets for curtains, upholstered complete. Chairs, Towel Rail. Table Pedestal Cupboard. Carpet and Hearthrug. Curtains and Pole. Lounge Chair. Ottoman Seat.

229 Charlotte Robinson, 64, King-street, Manchester.

Frieze. Corner Sideboard. Overmantel. Draught Screen. Fire Screens. Tuckaway Tables. Newspaper and Music Stands. Photograph Frames, &c.

230 Reuben Bennett, 53, South King-street; works, East-street, Manchester. London address, 18, Bouverie-street, E.C.

Samples of Decorative Modelling of Walls and Ceilings by Handwork, as opposed to embossed surfaces produced by mechanical means. By this hand-work process the wall or ceiling itself is modelled by the artist's own hand.

231 and 232 J. Davenport & Co., 6, John Dalton-street, Manchester.

Artistic and Sanitary Wall Papers and Decorations:—Raised Flocks for painting, Cordelova, Japanese Leather Papers, Highly Embossed English Leather Papers, Ceiling Papers, Staircase Decorations, Nursery Papers by Walter Crane, Room Mouldings, &c.

233 THONET BROTHERS, Vienna. Represented by Messrs. B. HEMBRY & Co., 47, Cross-street, Albert Square, Manchester; and 33, North John-street, Liverpool.

Austrian Bentwood Furniture.

234 WATSON SMITH, Lecturer in Chemical Technology in the Victoria University, Manchester.

Autograph Manuscript Scores, and Letters of the Classical Musical Composers, more especially of those of the older school.

235 WILLIAM MITCHELL & SON, 265, Stretford-road, Hulme, Manchester.

Interior Decorative Painting. New Method of Painting. Special Friezes, and other Hand-painted Decorations.

236 TURNER AND CO., 36, John Dalton-street, Manchester.

Sideboard, English oak, style Italian, 16th century, panels carved in high relief, genre grotesque. Mantel and Overmantel (*en suite*). The mantel fitted with tilting receptacle for coals. Lounge Chairs mounted on cradle springs. Writing Table.

237 DOVESTON'S, 3 and 4, Albert Square, Manchester.

Small House, consisting of four rooms, viz., hall, dining-room, and two bed-rooms, furnished with carpets, draperies, ornaments, &c., complete, being reproductions of fine inlaid and carved work, principally in the styles of the 17th and 18th centuries.

238 ARTHUR H. LEE, German Mill, Derby-street, Bolton.

Curtain Fabrics, Furniture Covering, and Wall Hangings, Tapestry, Damask, &c.

239 ARTHUR BRUNEL CHATWOOD, Irwell House, Prestwich.

Chatwood's Electro-pneumatic Action for Organs. Illustrated by a Working Model, showing the invention applied to *(a)* the key action; *(b)* the stop action; *(c)* the action of the swell pedal; *(d)* the action of the couplers; (*e*) a special composition pedal action.

240 ALFRED SHEPHERD, Straduarius Works, Mill-lane End, Brighouse, Yorkshire.

Violins, hand-made. Made from yew tree 1,500 years old.

241 WILLIAM HARGREAVES, 11, Booth-street, Piccadilly, Manchester.

Joseph Guarini Violins. Joseph Guarini Viola. Joseph Guarini Violoncello. Quartette by Joseph Guarini. Violin in parts, showing the interior, the bass bar, &c. J. Guarini Violin Bows.

242 G. A. Chanot, 48, Great Ducie-street, Manchester.

Violoncello, copy of a very fine specimen of Stradivarius. Violins, copies of Maggini and Joseph Guarnerius. Samples of Bows, old and new; all kinds of Strings and Fittings for Violinists. A few Specimens of old Violins and Violin Cases.

243 Edward Crompton, 54, Barton Arcade, Deansgate, Manchester.

Violins by George Craske. Models of Straduarius and Guarnerius.

244 Arthur Tilley & Co., 29 and 30, Westfield-road, Surbiton, and 35a, Piccadilly, W.

Banjos, in ebonised glass case.

245 George Potter & Co., Aldershot.

Patented Invention for Tuning Drums (Timpani and Gong). Models of Bass, Side, Tenor, and Kettle Drums. Cymbals. A Historic Drum (relic of Waterloo).

246 David Murray, 10, King-street, Manchester.

Drawing-room Furniture, Papers, Decorations, &c.

247 Heighway & Son, 19, John Dalton-street, Manchester, and 8, Berners-street, London.

Portion of Entrance Hall, showing corner fireplace, oak panelling and decoration, with drapery, carpet, and ornaments. Drawing-room, decorated and furnished, with ceiling and frieze in modelled plaster.

248 Orme and Sons, Blackfriars-street, Manchester.

Black Walnut Billiard Table, with richly carved panels, Black Walnut Door, covering recess for Cues, &c. An Oak Mantel and Marking Board combined, fitted with register grate, hearth, and fender. The Marking Board is fitted with ball boxes, mirrors, &c. Cabinet and Marking Board combined, in fumigated oak. Envelope Card Table, in black walnut. Revolving Cue Rack. Billiard Room Chairs. Billiard Room Lounge, upholstered in white horsehair, with fancy pattern worked in. Set of Turkey Carpet Surrounds, and other billiard room appointments.

249 George Baker, Sevastopoulo Khan, Constantinople; London Depot, 19, Ivy-lane, Newgate-street, London.

Turkey Carpets, Persian Carpets, Rugs, &c., in all styles. Cotton and Silk Textile Fabrics from Turkey, Persia, India, and China.

250 Wm. Scott Morton (for the Tynecastle Company), Tynecastle, Edinburgh; 14, Rathbone Place, London, W.

Tynecastle Canvas for the decoration of walls, ceilings, &c.

250A J. & H. PATTESON, Oxford-street, Manchester.

Marble Mosaic Adamant, for floors, walls, fire-hearths, &c. English and Foreign Encaustic and Geometrical Tiles. Roman, Ceramic, and Enamel Mosaics.

251 JEFFREY & CO., 64, Essex-road, London, N.

Wall Papers (hand and machine printed), Embossed Leathers and Leather Papers, and Embossed Satins, Decorations for rooms and staircases, including the Royal Jubilee Decoration by F. Vincent Hart; the Woodnotes and Golden Age by Walter Crane; the Elvas by Lewis F. Day; and the Westminster by J. D. Sedding. Examples of Papers stamped in low relief. Raised Flocks for painting, and Flocks and Golds. Inexpensive machine-printed Nursery and Chintz Papers, and Jeffrey and Co.'s Patent Hygienic Wall Papers, all free from arsenic.

252 JAMES LAMB, 16, John Dalton-street, Manchester.

Furniture and Decoration.

253 THE DECORATORS' SUPPLY CO. (S. Heighway, proprietor), 105, Deansgate, Manchester.

Japanese Leather Embossed Wall Paper, Lincrusta Walton, Muraline, Duro-Textile, and sundry new embossed materials. Selection of Paperhangings.

254 KENDAL MILNE & CO., Deansgate, Police-street, and St. Ann-street; manufactory, Southgate, Manchester.

Drawing-room: For gentleman's town or country residence, decorated and furnished. Satinwood dado wall and ceiling framing, with panels of figured silk, the furniture in rosewood with delicately engraved inlays in the style of the Italian Renaissance. Dining-room: Oak wall panelling carved and inlaid, the frieze of bold repoussé work in copper. Mahogany sideboard, chimney piece, grate, &c. A dining-room, drawing-room, and bedroom completely decorated and furnished for a house of £40 annual rental. A workman's dwelling house, comprising kitchen, sitting-room, parlour, and bedrooms, completely furnished. The furniture is entirely made of hard woods, such as oak, birch, ash, and elm. Suitable for a rental of 6s. or 7s. per week. Specimens of various articles used in decorating and furnishing public and private buildings. A gentleman's house completely decorated and furnished, showing the application of electric light to domestic purposes. See the Edison Electric Light Company's Exhibit in the Botanical Gardens, between the band stands.

255 ROBERT GARNETT & SONS, works, Penketh; warerooms, Sankey-street, Warrington.

Bedroom furnishing, combining constructional effect with economy of space. Also dining-room examples, including Ingle Nook Fireplace, applicable to ordinary rooms.

256 F. and C. Osler, Broad-street, Birmingham, and 100, Oxford-street, London.

Crystal Glass for the table. Ornamental Glass of all kinds. China Services for the table. Decorative China. Chandeliers. Electric Fittings.

257 Morris & Co., 449, Oxford-street, London, W.; works, Merton Abbey, Surrey; Manchester agents, Kendal Milne, & Co.

Arras Tapestry. Hand-made Carpets. Brussels and Wilton Carpets. Wall Papers. Printed Furniture Cottons. Curtain Materials. Silk Damasks. Cabinet Work. Embroideries.

258 Doulton & Co., London, Burslem, Rowley Regis, St. Helens, Smethwick, Liverpool, Manchester, Birmingham, and Paris.

Art Exhibits: Specimens of Doulton Ware, Lambeth Faience, Silicon Ware, Chiné Ware, and other Art Wares, from the Lambeth Art Pottery. A Large Terra Cotta Panel, by Mr. George Tinworth, entitled "Christ's Entry into Jerusalem." In the Art Section, Large Terra Cotta Panel, by Mr. George Tinworth, entitled "The Release of Barabbas." On either side of the Organ, Two Panels, representing "Music," painted in Doulton's new Impasto process. In the Nave, a Tank Fountain, 20 feet diameter, in glazed terra cotta in the Indian style; the floor of the tank is also of keramic material. A Large Fountain Rim, 20 feet diameter, of hexafoil plan, with pedestals and vases all of glazed terra cotta.

259 The Worcester Royal Porcelain Co., Limited, The Royal Porcelain Works, Worcester.

Miniature Bust, on pedestal, of Her Majesty the Queen. A variety of Vases, Ewers, and other forms and ornaments in Oriental Renaissance—Indian, Persian, Arabian—in ivory, porcelain, richly decorated with various metals, encrusted golds, and colours. Vases, Tazzas, and Patera, in Italian Renaissance. Vases in ivory porcelain, with painted flowers. Figures and Statuettes, in stained ivories and old ivory. Vases in Cloisonné decorations. Carved Ivory Porcelain. Specimens of China Dinner, Dessert, Tea, and Breakfast Services. Royal Worcester Vitreous Dinner Services, and other useful Wares.

260 Ernest Wahliss, 37, Kaerntner-strasse, Vienna, Austria, and 11, St. Andrew's-street, Holborn Circus, London, E.C.

Hungarian Faience, consisting of Vases, Ornaments, Lamps, Jugs, Flower Pots, Mounted Knives and Forks, Toilet and Dinner Sets, Breakfast Sets, Trays, Salad Bowls, &c. Bohemian China, consisting of Vases, Flower Holders, Ornaments, Looking Glasses, Jugs, Plates, Dishes, Cups and Saucers, Flower Pots, Knives and Forks, Salad

Bowls, Jam and Biscuit Boxes, Toilet Sets, Baskets, Trays, &c. Bohemian Earthenware, consisting of Terra Cotta Figures, Busts, Groups, Flower Holders, Vases, Ornaments, Liqueur Sets, &c.

261 HAVILAND & Co., 60, Faubourg Poissonière, Paris; works, Limoges.

Painted China and Artistic Earthenware Vases and Ornaments.

262 THOMAS HAYWARD & Co., Deansgate China Rooms, Manchester.

Artistic Pottery, the special productions of Messrs. Doulton and Co.'s Burslem Works, including Vases, Art Pitchers, in patented Chiné decoration; also artistic Tea, Toilet, Dessert, and Dinner Services. Minton's productions—Japanesque China Dessert Service. Classical designs in Dinner, Toilet, and Breakfast Services. Vases in pât-sur-pât decoration, by their ceramic artists, Solon & Co.

263 GUISEPPE GUETTA, Barbarigo's Palace, Venice.

Artistic Furniture in carved wood. Artistic Figures. Venetian Mirrors and Glassware.

264 ADOLFE BAUER É ANTONIBERE. Bauer, 5, Piazza Frescobaldi, Florence; Antonibere, Nove Provincia, Venezia.

Artistic Furniture. Artistic China.

265 BOOSEY & Co., 295, Regent-street, London.

Orchestral and Military Wind and Percussion Band Instruments.

267 FORSYTH BROTHERS, 122, 124, Deansgate, Manchester; 272A, Regent Circus, Oxford-street, London.

Metal-framed Grands and Cottage Pianofortes, by Collard and Collard, London. American Organs by The Dominion Organ Company, Bowmanville, Canada.

269 NEUFELD L., Kronen-strasse, Berlin.

Boudoir Grand, entire metal frame, repeating action; overstrung scaling. Upright Grand, cupola metal frame, Louis XIV. case, overstrung scaling. Upright, ebonised and gold case, overstrung scaling. Small Cottage, iron framing in walnut case, overstrung scaling. Music Chair and Stool.

270 PLEYEL WOLFF, & Co., Rue Rochechouart, Paris; London Agency, 170, New Bond-street.

Semi-grand Piano, parallel strings, in mahogany and marqueterie case. Upright Piano, with oblique stringing, mahogany and marqueterie case, style Louis XVI. Patent Transpositeur. Cottage Piano, rosewood case, vertical stringing, style Louis XVI.

271 WATSON SMITH, Lecturer in Chemical Technology in the Victoria University, Manchester.

The last Piano of Beethoven, specially made for him by Conrad Graf, of Vienna (*vide* Graf's autograph letter, kindly lent by Messrs. Gebrüder Hug, of Zürich). Chopin's last and favourite Piano, presented to him by Camille Pleyel, of Paris (see inscribed plate on piano, kindly lent by Messrs. Pleyel, Wolff, & Co., of Paris). Antograph, Scores, and Letters, &c., by the Great Masters of Musical Composition, in six frames, Cherubini, Schumann, Chopin, Mendelssohn, Thomas, David, Gounod, Weber, Meyerbeer, Rossini, J. and C. Pleyel, &c.; also of Boccherini, Haydn, Bach, Berlioz, Spontini, Beethoven, Mozart, and F. Ries.

272 DOULTON & Co., 17, Deansgate, Manchester.

Glazed Terra Cotta Fountain.

272A CHUBB'S LOCK AND SAFE CO., LIMITED, London and Manchester.

Chubb's Patent Diamond Safe, containing Diamonds exhibited by Messrs. John Hall and Co., of King-street, Manchester, and constructed of hardened drill-proof steel, with sliding doors and steel cage over the opening. By an ingenious mechanical contrivance the doors are drawn back and the glass case containing the jewels is at the same time moved up so as to be exposed to view outside the safe. This safe and its cage is a precise reproduction of one made by Messrs. Chubb to contain the celebrated Koh-i-noor diamond, which was exhibited by Her Majesty the Queen at the first Great International Exhibition of 1851.

273 LOCKE & SON, Mendelssohn House, Strangeways, Manchester.

Semi-cabinet Pianoforte, seven octaves. The Avenham Pianoforte, composite design. Ye Earlye Englishe Pianoforte. Artistic Cased Library Organ. The Empress, an ebonised pianoforte in decorated case. Saloon Model Pianoforte in English oak. The People's Pianoforte, full trichord, iron frame, check-action, metal pin-plate. Models of actions, frames, timbers, &c., used in the manufacture of pianofortes.

274 LACHENAL & Co., Little James-street, Gray's Inn-road, London, W.C.

English Concertinas, with patent bowing valves. Duet Patent Concertinas, Concertina with pianoforte fingering. Chromatic Anglo-German Concertinas.

275 JAMES COLE, 12, Reade's Buildings, Peter-street, Manchester.

Violins and Bows. Violas. Violoncellos. Violin Case. Wood for Violins.

277 HENSHAW AND LOEBELL, LIMITED, 20 and 22, Swan-street, Manchester.

The Steinhard (registered) Upright Grand Piano, with all the latest improvements, and of exquisite design. The Steinhard (registered) Cottage Piano, with all the latest improvements and exquisite design. Varied selection of Musical Instruments, of ancient and modern designs; also, special selection of Fittings for Musical Instruments.

277A BINNS BROTHERS, 20, 64, and 66, Chester-road, Manchester.

Metal frame Semi-cottage Piano (Collard and Collard), early English front, with gold lines, check action, full trichord, seven octaves, carved trusses, and metal pin plate. Upright Grand (Kirkman & Son), constructed on the principle of the Horizontal Grand, with wrought steel frame and wrest plank, gun-metal studs and under-damper action. Upright Grand (Challen & Son), 7¼ octaves, in fine Italian walnut, with extended ends, marqueterie panels, &c.; continuous iron frame, overstrung, trichord throughout, improved patent perfect repetition check action, with under-dampers. Cottage Piano, in ebonised and gold iron frame, brass wrest pin plate, trichord throughout, check action, fitted with Metzler & Co.'s patent organ attachment. The tone of the string continuously sustained (as performed upon by the late Abbé Liszt). A Model of the Patent Dulciphone or Automatic Piano Tone Moderator. Upright Grand (J. and J. Hopkinson), overstrung, in American walnut, with carved panels in the Italian Renaissance style, 7¼ octaves, and check action.

278 HENSHAW & Co., 83, Piccadilly, Manchester.

Pianos, and a miscellaneous assortment of Musical Instruments and Fittings, brass and string.

279 TOOTH & Co., Bretby Art Pottery, Woodville, near Burton-on-Trent.

Bretby Ware, an artistic and decorative pottery, consisting of vases, jardinières, plaques, tazzas, flower-holders, card-trays, tea, coffee, and dessert sets, toilet ware, and many other objects of a useful and ornamental character.

281 ANTONIO FRILLI, 4, Via Dei Fossi, Florence, Tuscany, Italy.

Collection of Statuary, in Carrara marble, alabaster, green marble (serpentine), with pillars in general kind of marbles, and Assortment of Mosaics.

282 HENRY G. STEPHENSON, Barton Arcade, Deansgate and St. Ann's Square, Manchester.

A Selection of China, Glass, and Earthenware, including some very fine porcelain enamels, and a specially-selected assortment of the productions of the Crown Derby Porcelain Co.

283 ROBERT MOLE & SONS, Granville-street, Birmingham.

Swords and Claymores of various patterns, for service and presentation. Naval Cutlasses, Lances, Halberds, Foils, &c. Matchets, as largely used in the cultivation of coffee and sugar, and for other tropical plantation purposes.

284 JOHN MALLETT & SON, 36, Milsom-street, Bath.

Indian, Chinese, and Japanese Gold and Silver, Jewelled and Bronze Plate Jewellery and Curios. Enamels, Ivories, &c.

285 PETER HERTZ, Copenhagen, Denmark.

Gold and Silver Manufacturing in modern and ancient fashions. The Oldenborgian Drinking Horn. Copy from the chronological collection from the Danish kings on the castle of Rosenborg.

286 BENTON AND JOHNSON, 63, King's Cross-road, London, W.C.

Gold and Silver Wires, Threads, Bullions, Braids, and Cords. Gold Leaf. Gold and Silver Imitation Threads, Wires, Bullions, Fringes, Braids, and Cords.

287 OLLIVANT AND BOTSFORD, 2, Exchange-street, Manchester.

Silver Plate, Jewellery, Watches, Chime Clocks.

288 JOHN HALL & CO., 56, King-street, Manchester.

English-made Watches and Clocks. Manufactured Silver and Electro-plate. Gem Jewellery, with models of the principal historic diamonds of the world.

289 J. L. JAZOWSKI, International House, 112, Bold-street, Liverpool.

Real Amber Jewellery. Meerschaum Pipes and Cigar Holders. Silver Jewellery. Electro-plated Articles. English and Continental Goods.

290 JOHN MARK, 3 and 5, St. Ann's Square, Manchester.

China and Japan Court, comprising fine decorative art specimens in Nankin, Canton, Satsuma, Kaga, Kioto, Hizen, Imari, Banko,

Nagasaki, Tokio, and other Porcelain. Cloisonné Enamels, Carvings in Ivory, Bronzes and Inlaid Metal Work, Cabinets, Lacquer Ware, Screens embroidered in silk and gold, Fans, Hardwood Stands, Bamboo Carvings, Whatnots, Brackets, &c.

291 Ettore Montani, 6, Via Della Croce, Rome, or Italian Consulate, Manchester.

Vase sculptured in Cameo. Gold and Silver Jewellery. Mosaic and Cameo and Venetian Glass.

292 T. R. Russell, Cathedral Works, 18, Church-street, Liverpool.

Watches, Clocks, Statuary.

310 Robert Watson & Co., Surdah, Lower Bengal; agents; Messrs. Matheson & Co., 3, Lombard-street, London.

Specimens of Silk reeled at Surdah Filature. Silk Waste, Silk Cocoons.

311 Pizzie and Cramp, 34, Earl-street, Coventry.

Ribbons and Dress and Mantle Trimmings.

312 Thomas Wardle, Leek.

Living Silk-producing Lepidoptera. Various species of living Silk-producing Larvæ or Caterpillars, with their Cocoons and the Moths which have emerged therefrom. It is intended to exhibit alive as many species of silk-producing Lepidoptera as possible, both British and exotic, showing all their metamorphoses from the egg to the perfect moth.

313 Bengal Silk Co., Limited, Calcutta; London agents, Anderson Brothers, 16, Philpot-lane, E.C.

Raw Silk produced by the Company at their Rangamathy, Banjetty, Gonatea, and Cossinbazar Filatures.

315 Les Petits fils de C. J. Bonnet & Co., 8, Rue du Griffon, Lyon.

Silk Cocoons. Raw Silk. Reeled Silk. Dyed Silk. Silk Stuffs, comprising Faille, Satin, Faille Française, Merveilleux, and various new armures, in all silk, silk and wool, and silk grenadine, in over fifty qualities.

316 J. Vanner & Sons, 1, Coleman-street, London.

Spitalfields Silk for umbrellas.

317 Lewis and Allonby, Regent-street and Conduit-street, London.

Reversible Surat. Coloured and Black Dress Silks. Rich Jacquard-loom Brochè Silks. Silk Long Cloth.

318 Tom Bradwell & Co., Dane Mills, Congleton, Cheshire.

Sewing Silks for Hand and Machine Use. Knitting, Crewel, Filoselle, and Embroidery Silks. Tailors' Twists. Bootmakers' Closing Twists, &c.

319 J. Milligan & Son, Buxton, Derbyshire.

Derbyshire Hand-wrought Silk Hosiery.

320 John Hadwen & Sons, Kebroyde Mills, near Halifax.

Waste Silk in the Raw and Stages of Manufacture. Spun Silk for Laces. Velvet Plush Hosiery and Mixed Goods. Sewing and Filoselle Silks.

321 Henry Tucker & Co., Castleton Silk Mills, Rochdale; and Pendleton Silk Mill, Manchester.

Waste Silk, and Waste Silk Yarns, and products from same, and products from raw silk.

322 John Mason, Park Green Mill, Macclesfield.

English-made Silk Plush Handkerchiefs, Mufflers, Squares, and Sashes.

323 Enrico Meyer & Co., Via Andegari, Milan, Italy.

Raw and Thrown Silks.

324 P. Wild & Co., The Forge Mills, Congleton.

Spun Silk, Machine Twists, Filoselles, Embroideries, and other Yarns.

325 Clayton Marsdens & Co. Limited, Wellington Mills, Halifax.

Waste Silk and Spun Silk Yarns.

326 James Pearsall & Co., 155 and 156, Cheapside, London, E.C.

Embroidering Silks and Filoselles, in unfading and washing colours. Knitting Silks. Machine Sewing Silks, for the leather trade and for general purposes. Upholstery Covering and Fringeing Silks. Tussah Silks. Upholstery Satins, in unfading colours.

327 Henry Hogg & Son, Congleton, Cheshire; and John Godwin, Macclesfield.

Specially Thrown Organzine. Specially Thrown Tram. Silk Handkerchiefs, Cut-ups, Mufflers.

328 Francis Bagley, Bailey-lane; J. & T. P. Caldicott, 28, Much Park-street; J. & J. Cash, Hertford-street; Dalton, Barton & Co., Earl-street; F. W. Franklin, Bailey-lane; G. Carey Franklin, Earl-street; George Statham, 25, Much Park-street; Thos. Stevens, Stevengraph Works; and A. S. Tomson, Grey Friars Works.

Combined Exhibit of All Silk and Mixed Goods manufactured by the above in Coventry, with the exception of A. S. Tomson, waterer and finisher of all goods shown.

329 William Hammersley & Co., Mill-street, Abbey Green-road; and Bridge End, Leek, Staffordshire.

Dyed Silks (Bombyx Mori) in Tailors' Twist. Machine Twists, Sewings, Embroideries. Filoselles, Crewels, Washing Colours, Knitting Silks, unfading colours for art and upholstery. Organzines and Trams, weighted and unweighted. Softs and Souples in black and colours, including the noted fast French and Desange blacks, suitable for ribbons, velvets, chenilles, umbrellas, and all weaving purposes. Indian and China Tussahs in dyed, raw, and manufactured state.

330 Kershaw and Swindells, Paradise Mills, Macclesfield; 28, Cheapside, London, E.C.

Silk Manufactures for neck and pocket wear. Plain and Fancy Chenille.

331 William Chorlton & Co., 29, High-street, Manchester; Silk Mill, Droylsden, near Manchester; Silk Mill, Cheadle, Staffordshire.

Black Silk Crapes, various qualities.

332 The Pure Silk Manufacturing Co. of Vicenza, Italy, Stabilimento Serico, Vicenza, Italy.

Loom in work, making the silk of the olden time. Show Case at end of loom containing Specimens of the Silk of the Olden Time, in black and colours.

333 Joshua Wardle & Sons, Leek, Staffordshire; dye works, Leek Brook, Churnet, and Hencroft.

Italian and China Organzine and Tram, dyed in whites, colours, and black. Sewings, Tailors' Twist, and Sewing-machine Twist, dyed in whites, colours, black, and raven. Spun Silk, Embroidery, and Sewing-machine Twist, dyed in whites, colours, and black, and raven. Tussur Silk, Raw Organzine, and Tram, bleached and dyed in whites, colours, and black.

334 THOMAS WARDLE, Leek.

Silk Cocoon Reeling. Two Cocoon Reeling Machines at work—a French one exemplifying the two principal methods of reeling employed in the south of France, and an Italian one showing the system of reeling in which the Tavelette Consono is used. The French machine is worked by a French fileuse, or cocoon reeler, from Lyons, who is engaged in reeling Bengal cocoons. The Italian machine is employed in reeling Tussur silk cocoons, and by it is shown the practicability of producing Tussur raw silk in a continuous and even thread.

335 THOMAS WARDLE, Leek.

Series of Specimens illustrating Silk Entomology. A Collection of Preserved Ova, Larvæ, Cocoons, and Moths of extreme entomological and sericultural interest and importance. One cabinet contains all the principal species of Silk-producing Lepidoptera of India, with their Cocoons. Moths from all parts of the world the larvæ of which produce silk cocoons.

336 MICHAEL BORG, Silk Lace Manufacturer, 263 and 269, Strada Reale, Valetta, Malta; and 7, Wool Exchange, Coleman-street, London, E.C.

Black and Cream Silk Square Shawls, Scarfs, Fichus, Flounces, Trimmings and Mittens. Cream Silk Handkerchiefs. Collars and Cuffs. Cream and Black Mantillas. Malta Mule Cloth Curtains and Antimacassars.

337 THOMAS FRASER PEPPÈ, Arrah, Bengal, India; agent, Henry Birkbeck, 34, Southampton Buildings, London, W.C.

Indian Tussah Silk.

338 COWLISHAW, NICOL, & CO. LIMITED, 16, Princess-street, Manchester.

Upholstering Fabrics, Satin Damasks, Satins, Silk Tapestries, Silk and Wool Tapestries, Silk Brocatelles, Silk and Chenille Tapestries, Curtains and Covers, Silk Brocades, Silk Plush, Cotelines, Silk and Cotton and Silk and Wool Cashmeres, Bouretta Tapestries, Curtains and Covers. Embroidery for Dress and Upholstering Purposes in Silk and Chenille. Duplicate samples of Silk Damask made for Windsor Castle, Marlborough House, and the House of Lords; and duplicate sample of Embroidered Dress made for Her Majesty the Queen in the year 1839.

339 BRIGGS & CO., 8, Church-street, Manchester.

Transferring Designs for Embroidery. Embroidery Silks from raw state to finished needlework.

340 Leek Embroidery Society; Mrs. Wardle, 54, South Edward-street, Leek, Staffordshire.

Suggested Curtain in Tussur Silk and Gold Thread; ground challet. Designed by C. Purdon Clarke, Esq., C.I.E. Suggested Curtain in Tussur Silk and Gold Thread; ground Tussur. Designed by William Morris, Esq. Suggested Curtain in Tussur Silk and Gold Thread. Copy of Printed Tisser, end of 17th century; ground Tussur. Altar Cloth, Frontal and Super Frontal, worked for All Saint's, Leek, on Tussur plush, with Tussur embroidery, silk, and gold thread. The Leek Church Carpets, worked by hand on meshes cut in pile (communicants' kneelers for All Saints, Leek). A specimen of the reproduction of the old Tambour work for curtains. Case of small pieces of Embroidery on Tussur Silk, Blotters; Chair Backs, Work-bags, Handkerchief Cases, Glove Cases, Brackets.

341 J. O. Nicholson, Macclesfield Embroidery School, and Furniture Silks Manufacturing Company, Hope Mills, Macclesfield.

Thrown Silks. Silk Damasks and Brocades. Furniture Fabrics in spun silk, Tussah silk, and cotton. Dress Silks, plain and brocaded. Hand Embroideries—Portieres, Curtains, Table Covers, and Borders, upon silks, satins, plushes, and Tussah silks. Bed Coverlets, Table Cloths, Chair Backs, &c., upon cotton, linen, and woollen cloths.

342 Ancient and Modern Silk Fabrics of English Production.

Loan collection of silk fabrics of English weaving or manufacture from Elizabethan times to the present.

343 Indian Fabrics.

This collection comprises a magnificent series of kinkhabs, kahrita bags, brocades, and embroideries, principally collected by Mr. Wardle during his visit to India in the winter of 1885-6.

344 Royal Institution Collection of Silk Fabrics.

Collection comprising ancient patterned stuffs of great interest, chiefly the result of the search of Dr. Bock. They were purchased by the Royal Manchester Institution, whose committee have kindly lent them to the Exhibition. They are historically arranged.

345 Coptic Fabrics.

Interesting series, beautifully mounted, consisting of ancient specimens of Coptic weaving, chiefly sacerdotal, of the fifth century, lent by C. P. Scott, Esq., honorary secretary to the Executive Committee of this Exhibition.

SECTION II.

MACHINERY.

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350 W. & E. Rigby, Queen's Foundry, Blackhorse-street, Bolton.

Pair of 12in. Cylinder, 24in. Stroke, Diagonal Reversible Steam Engines. 6-Bowl Calender and Bowls. Cotton Bowl. Long Cotton Bowl. Long Brass Bowl. Three Rigby's Patent Universal Joints.

350A William Bodden & Son, Hargreaves Works, Oldham.

Spindles, Flyers, Collars, Wheels, and Footsteps of all kinds for cotton, silk, woollen, and flax spinning and doubling.

350B W. N. Wilkinson & Co., 10, St. John's-road, Longsight, Manchester.

Pulleys covered with patent perforated material, to prevent straps from slipping.

351 The Singer Manufacturing Co.; head office, 34, Union Square, New York; 39, Foster-lane, London, E.C.; 107, Market-street, Manchester.

Sewing Machines. Arm Machine with Universal Feed, for patching and general boot work. Automatic Buttonhole Machine. Carpet Sewing Machine. Benches exhibiting method of driving sewing machines by motive power. Drop-feed Machine for cloth work. Wheel-feed Machine for leather work. Automatic Buttonhole Machine. Chain-stitch Machine for manufacturing purposes. Multiple Jacquard Card Machine, for connecting Jacquard cards.

352 Henry Wallwork & Co., Union Bridge Ironworks, Charter-street, Manchester; and City Sewing Machine Works, Manchester.

Sturgeon's Patent Gas Engines. Combination Yarn Testing Machines. Fire Extinguisher with Pump, for mills. Portable Oil Gas Generating Lamps. Samples of Various Malleable and Annealed Castings. Sewing Machines running by power and treadle. Parts and Attachments to Sewing Machines. Samples of Work done upon the sewing machines. Juvenile Tricycle. Lubricator for gas engine and other purposes.

353 George Perkins, 20, Piccadilly, Manchester.

One large Double Needle and Shuttle Sewing Machine, especially fitted for sewing heavy cotton and canvas belting. One large Fringing Machine (for power) for fringing Bolton quilts and shawls. Samples of Heavy Belting sewn by machine, finished and unfinished.

354 Hindle, Norton & Co., Ironmonger-lane, Oldham, near Manchester.

Dougill Gas Engine. Door Check and Spring for single and double action doors. Friction Hoist.

355 Crossley Bros., Limited, Otto Gas Engine Works, Openshaw, Manchester.

One 14-h.p. Nominal Horizontal Otto Gas Engine, driven by gas made in the Dowson Economic Gas Apparatus exhibited outside, and itself driving one Crompton dynamo.

356 Thomas C. Fawcett, Burmantofts and Old Victoria Foundries, Leeds.

Wrought-iron Perforated Bottom Clay Grinding Pan. Semi-Dry and Plastic Brick-making Machines. Duplex Lever Hand-power Brick Press. Steam-power Brick Press. Plastic Brick-making Machine. Weegee or Jigger for Dyers.

357 W. H. Bailey & Co., Hydraulic Engineers, Albion Works, Salford, Manchester.

Patent Hydraulic Lift, suitable for a grain warehouse or other purposes. Hydraulic Organ Blower, large and small size. Haag's Water Motor, suitable as an underground hauling engine (Sir Hussey Vivian's pattern). Lindermann and Bailey's Double Cylinder Direct-acting Steam Pump, Victor pattern, for boiler feeding, general marine purposes, for bilge water, hydraulic lifts, &c. This pump can be adjusted to go at any speed from one stroke to 300 double per minute. Cymric Pattern, Fly-wheel, Double-acting Steam Pump. Harlech ditto. Swivel Valve Single-acting Ram Pump, Challenger pattern, Well Pump for power. Haag's Oscillating Power Engine. Vertical Double-acting Pump with sling and guide. Horizontal Double-acting Pump and Power Engine. Horizontal Double-acting Strap Pump on base plate. Double-acting Steam Pump on iron base plate. Vertical Swivel Valve Steam Ram Pump for boiler feeding, &c.

358 Hick, Hargreaves, & Co., Soho Iron Works, Bolton, Lancashire.

High-class Steam Engine, with Corliss valves and valve gear; built-up cylinder, with separate liner and steam jacket; high-speed governor and Knowles' supplementary governor; built-up fly-wheel, grooved with deep grooves for rope transmission, with separate centre boss, arms, and segments. Automatic Barring Engine for turning

main engine. Automatic Motion for moving into gear and automatically out of gear when main engine starts. Photographs and Drawings of mill engines, valve gear, &c. Main Driving Lines of Shafting, with Couplings, New Swivel Pedestals, Self-Lubricating and Ordinary Pedestals, Rope Driving Pulleys, Belt Pulleys, &c.

359 JOSHUA SCHOFIELD & SONS, Commercial Mills, Cornbrook, Hulme, Manchester.

Finishing Machine for velvets, velveteens, cords, &c. Treble Brush Dressing Machine for velvets, velveteens, and cords.

360 WILLIAM DICKINSON & SONS, Phœnix Ironworks, Blackburn.

Loom, Jucker's patent. Jucker's Patent Loom, with overpick and underpick combined, and with patent automatic motion for exchanging the shuttle when the weft fails; patent fast reed motion, with loose reed swell and patent clutch driving. This loom is constructed to weave pile fabrics, two pieces face to face, or two pieces of plain cloth, each with proper selvages, or ordinary plain cloth. Loom, 36in. reed space, for weaving plain calicoes, constructed for light running, at a speed up to 250 picks per minute, fitted with the maker's patent handkerchief motion for weaving plain borders or checks, putting two or more picks in one shed as required. Loom, 36in. reed space, weaving checks, with three shuttle drop boxes, worked by patent link and chain motion, square bushed stop rod, for weaving heavy cloths in a light running loom. Loom, 36in. reed space, for weaving heavy goods, with three shuttle drop boxes, arranged with card motion, and patent motion for handkerchief weaving. Winding Machine, of 50 spindles, to wind from cops to warpers' bobbins, and also from coloured hanks, with both heart and mangle wheel motions for shaping the bobbins. Warping Machine, with patent automatic stopping motion, measuring motion, falling rollers for taking up slack yarn, brake, expanding front and back combs. Slasher Sizing Machine, cylinders 84in. and 48in. diameter, 60in. wide, seamless copper size roller, side shaft, with friction motion; patent tension motion, patent double roller press motion, cone drum driving, with disengaging gear; improved dhootie marking motion, &c. Size Mixing Apparatus. Samples of Shuttles, Shuttle Tongues, and other accessories. Bobbins, Pickers, Picking Bands, and general sundries for weaving machinery.

361 LORD BROTHERS, Canal-street Works, Todmorden.

Revolving Flat Carding Engine. Ring Spinning Frame.

362 HARRISON, MCGREGOR & CO., Albion Iron Works, Leigh, Lancashire.

Self-raking Reaper, with turn-up platform and five automatic or manual controllable rakes or gatherers. Two-horse Combined Mowing and Reaping Machines. Chaff Cutters. Knife and Finger Sharpener.

363 JOHN TATHAM, Moss Lane and Milnrow-road Iron Works, Rochdale.

Bare Spindle Cop Spinning Frame for cotton, for producing cops exactly like the mule and on the bare spindle. Bare Spindle Cop and Spinning Frame for worsted, for producing cops exactly like worsted cops, but hitherto only spun by means of a mule. Cotton and Cotton Waste Carding Engine. Automatic Self-feeding and Weighing Machine attached to carding engine. Automatic Self-changing Can Coiling Motion.

364 H. BURY, 27, Arcade Chambers, St. Mary's Gate, Manchester.

General Electric Lighting Plant. Telephones. Electrical Sundries. Wrought-iron Split Pulleys.

364A JAMES WARWICK, 22, Gratton-street, Oxford-road, Chorlton-on-Medlock.

Models of a New Mechanical Motion.

365 THE PATENT EXHAUST STEAM INJECTOR CO., LIMITED, 4, St. Ann's Square, Manchester.

Exhaust Injectors for feeding stationary boilers by means of exhaust steam and for locomotives. Automatic Re-starting Injectors. Automatic Re-starting Injectors specially for locomotives. Throttle Valves. Water Level Indicators. Automatic Railway Wagon Coupling (model). Expansion Low Water Alarm. Sectional Model of Exhaust Injector.

366 WILLIAM JESSOP & SONS, LIMITED, Brightside Steel Works, Sheffield.

Cast-steel Spur Wheel, 16ft. diameter. Cast-steel Crank Shaft, 8 tons. Cast-steel Fly-wheel Shaft, 7 tons. Cast-steel Cylinder Cover, 3 tons. Cast-steel Tram Wheels, with patent fastener. Cast-steel Connecting Rod. Cast-steel Piston Rod. Assortment of Cast-steel Gearing, &c. Assortment of all kinds of Tool Steels. Assortment of Spindle and Mule Steels.

366A CRAVEN BROTHERS, LIMITED, Vauxhall Iron Works, Osborne-street, Manchester.

Rope-power Travelling Crane, 26ft. span, will lift and travel a safe working load of 20 tons, controlled by a man seated at one end of the girders, where he has a clear view of the lifting hook. The Crane is driven by a small pair of direct-acting coupled engines, fixed at one end of boiler-house, with a rope pulley on engine shaft. The driving rope runs from this pulley the full length of gantry, and gives motion to the crane in travelling or lifting in any part of gantry. The man on the crane can stop and start the engines, so that the rope need not run when the crane is not required. The crane is carried by a gantry 150ft. long, of rolled iron girders supported by cast-iron columns independent of the Exhibition building. The crane was employed lifting the boilers, each weighing 21 tons, and other heavy exhibits, before the opening of the Exhibition, and will be employed for the same purpose after the close.

367 WILLIAM ALLEN, Union Brass and Iron Works, Great Ancoats, Manchester.

Compound High and Low Pressure Marine Engine, 12in. and 20in. steam cylinders, 16in. stroke, fitted up with propeller and shafts, &c. Steam Donkey Pump for general purposes. Gun-metal Steam, and Hot Water Valves, and Taps and Fittings. Cast-iron Steam Valves.

368 NIGHTINGALE BROS., Paterson, New Jersey, U.S.A.

A Machine to Wind Quills for Looms, either silk or cotton. The machine doubles any number of ends together on the empty quills. It has 40 spindles. The quills are wound upright, requiring no former. An Attachment to Looms designed to let off silk from the beam of the loom automatically while in motion.

369 WILLAN AND MILLS, Rose Hill Foundry, Blackburn.

Loom with Jepson's Dobby attached.

370 THOMAS STEVENS, Stevengraph Works, Coventry.

Jacquard Loom in motion, for the manufacture of fancy silk goods.

371 HACKING & Co., Lord-street, Bury, Lancashire.

Loom with patent shuttle motion, shuttle check motion, and weft selvedge motion. Folding and Measuring Machine, with patent table motion.

372 DEVOGE & Co., 15A, York-street (first floor), Manchester; works, 462, Oldham Road.

Loom, weaving 30in. cloth at the rate of 180 to 200 picks per minute, fitted with a 400's Double Lift Double Cylinder Jacquard, which can be altered when required, to weave as a compound Jacquard for cross-border work. 400's Double Lift Single Cylinder Jacquard, for working at the rate of 160 to 180 picks per minute. 600's Single Lift Jacquard, with swing batten motion, for weaving about 120 picks per minute. 400's Single Lift Jacquard, with horizontal or slide motion, for use in sheds with insufficient height for the swing motion. 812's Fine Gauge Jacquard Machine, for use in lace manufacturing. 1200's Devoge's Improved Rising and Falling or Double Shed Jacquard, for weaving heavy goods requiring a deep shed. Samples of Couplings, Lingoes, Mails, &c., requisite for harnessing Jacquard machines.

373 WILLIAM CROSSLEY, Chapel Works, Wrigley Head, Failsworth, near Manchester.

Power Loom, weaving silk handkerchiefs with cross border. Double-lift Jacquard Machine.

374 WRIGHT SHAW, Bank Foundry, Bredbury, near Stockport.

Scarf, Handkerchief, and Check Loom. Five Shuttles and Chain Economiser.

375 James Walton & Sons, Haughton Dale Mills, Denton, near Manchester.

Card Setting Machine for fillets. Card Setting Machine for flats and sheets. Card Setting by hand, as carried on before the invention of the card setting machine. Samples of the various kind of Cards used in the carding of cotton and other fibrous substances.

376 David Madeley, 3, China-lane, Piccadilly, Manchester.

Fustian Loom, weaving patent corduroys. Cord Cutting Machine by steam power. Samples of Finished Goods.

377 Waterside Iron Works Co., Waterside Works, Dukinfield, Cheshire.

Cotton Loom for weaving cotton goods of any strength, plain, twills, sateens, and fancies of all kinds. Woollen Loom for weaving worsted and woollen goods of all kinds. Express Roving Frame with fixture, long collars, and swivel attachments.

378 William Ryder, Bee Hive Works, Folds-road, Bolton.

Gravity Spinning Spindle, in ring spinning frame of 48 spindles running at high speeds. Gravity Doubling Spindle, in ring doubling frame of 36 spindles for fine and coarse doubling at high speeds. Samples of Fluted Rollers, Plain and Fluted Top Rollers, Slubbing and Roving Spindles and Flyers, Ring Spinning and Doubling Spindles, Mule Spindles, &c. Working Model of Forging Machine, one-third natural size.

379 Ralph Heaton & Sons, The Mint, Birmingham.

Cold Wrought Seamless Copper Tubes, Brass and Copper Tubes (plain and ornamental), Rolled Metals, Wire, Gasfittings, Waterfittings, Bedstead Fittings, Spun Work, Stamped Ornaments, Coins, Checks, Medals, Blanks, &c. Coining Press in motion striking medals.

380 J. H. Pickup & Co., Britannia Tin and Copper Works, Clerke-street and Foundry-street, Bury.

Large Copper Steam Drying Cylinder, on cavity principle. Copper Rollers. Copper Cylinder. Tin Rollers.

381 Sir Joseph Whitworth & Co., Limited, Openshaw, Manchester.

Hollow Propeller Shaft, 55ft. long, 18¼in. diameter, with a 10in. hole, collar at one end 34in. diameter. Complete Set of Forgings for 68-ton Gun, consisting of tube 26½ tons, breech piece 18 tons, B tube 17 tons, 5 hoops 40 tons, and breech screw 23½ cwt; total weight 102 tons. Weldless Steel Boiler Shell, 12ft. diameter by 6ft. 6in. long. Full Size Wood Model of the City of Rome crank shaft. 14in. Air Vessel, to contain the compressed air for the propulsion of the Whitehead torpedo. These vessels are

used by the English Government, and are tested to a proof pressure of 1,500lb. per square inch. Length, 5ft. 6in.; thickness, from ·25in. to ·33in. Ring and Plug, made of mild fluid pressed steel. This ring was heated and shrunk on to the 18in. plug, and when cold the plug was pushed out by a hydraulic pressure of 3,200 tons, thus illustrating the enormous power of shrinkage. Pair of Whitworth Steel Shot Tubes. Longitudinal Section of Hollow Ingot. Wrought-iron Armour Plate, by Sir J. Brown & Co., Sheffield, 18in. thick, perforated by a steel shell fired from the Whitworth 9in. 20-ton breech-loading gun. The Shell, made of Whitworth steel, after perforating the above plate. The above armour plate was placed against a steel hoop 37in. long, filled with hard rammed sand, behind which was placed a steel and oak backing 7in. thick; this was supported by a cast-iron plate 19ft. 6in. long, 5ft. wide, and 14in. deep, held in position by baulks of timber, all well bedded and covered with damp sand. The projectile, after perforating the 18in. of armour, passed through the sand, and then through the steel plate and oak backing, broke up the cast-iron plate, and finally buried itself in the sand at a distance of 17ft. from the face of the target, and at a depth of 4ft. below the cast-iron plate. 70-pounder Shot after being fired. This shot was fired from the deck of the Stork gunboat, at Portsmouth, in Oct. 1858, from a 68-pounder cast-iron gun, rifled hexagonally, and against a wrought plate 4in. thick, attached to the side of the Alfred. The powder charge was 12lb. R.L.G. powder, and the range 450 yards. The shot was driven through the plate and entered the planking of the ship's side. This was the first instance of penetration against a 4in. armour plate with solid shot, and from it dates the use of steel projectiles for that purpose Self-acting Surfacing, Sliding, and Screw-cutting Foot Lathe. Height of centres 5in., length of bed 5ft., to admit between centres 2ft. 9in. Whitworth Measuring Machine, to measure differences of 100,000th of an inch. Gravity Piece, and Set of Standards, of length from 1in. to 12in., advancing by 1in., in a box. Set Internal and External Standard and Cylindrical Gauges, $\frac{1}{8}$in. to 2in., rising by $\frac{1}{8}$in., in a box. These Gauges, by an order in Council dated August 26th, 1881, were made legal Board of Trade standards, and a complete set from ·01in. to 6in. is deposited in the Standard Department of the Board of Trade. Whitworth Hand Screwing Apparatus. Boxes containing Stocks, Dies, Taper, Master Taps, Wrenches, &c. Pair of Whitworth Hexagonal Surface Plates. These surface plates, besides being supported 3 points, are also suspended from the same points, and remain true when so suspended. Powder Magazine, made of corrugated brass.

382 Dobson and Barlow, Bolton.

Machinery for Preparing and Spinning Cotton.

383 Curtis, Sons, & Co., Phœnix Works, Chapel-street, Ancoats, Manchester.

Double Crighton Opener, with two vertical conical beaters, combined to single scutcher and lap machine, with driving apparatus attached, down draft, to make laps for carding engines 40in. on the

wire, feed table with horizontal beater, arranged to feed through both, or only through the second beater. Single Scutcher and Lap Machine, with down draft to make laps for carding engines, 40in. on the wire, for hand feeding or for laps, cone regulator and pedal feed motion. Carding Engine, with cylinder 50in. diameter, 40in. on the wire, shell feeder, licker-in 9in. diameter, clothed with steel inserted wire, doffer 24in. diameter, 106 iron flats, $1\frac{3}{8}$in. wide, fly doffing comb, calender delivery, and coiler for cans 36in. by 9in. Drawing Frame, three heads, three deliveries, with stationery cloth, loose boss, top rollers for front line, back and front stop motions, stop motion when cans are full, weight relieving motion. Lap Doubling Machine, to make laps 7in. wide for combers, lap part and stop motion for 14 cans. Heilmann's Combing Machine, with six heads, for laps 7in. wide, cut cams with interchangeable segments for circular combs, and weight relieving motion. Thompson and Barker's Patent Combing Machine, with eight heads, with gearing in the centre, two pairs of nip jaws by which each end passes over the circular combs, with cut cams and interchangeable segments for the circular combs for silk or cotton. Slubbing Frame, 38 spindles, 10in. lift, 18in. staff, long collars, single centrifugal pressers, division plates, loose boss top rollers for front line, with Curtis and Rhodes's patent winding motion, which is also applied to the intermediate and roving frame; hank indicator. Intermediate Frame, 56 spindles, 8in. lift, $19\frac{1}{2}$in. staff, long collars, single centrifugal pressers, loose boss, top rollers for front line; hank indicator. Roving Frame, 72 spindles, 7in. lift, $20\frac{3}{8}$in. staff, long collars, single centrifugal pressers, loose boss, top rollers for front line; hank indicator. Ring Spinning Frame, 136 spindles, $2\frac{5}{8}$in. gauge, 5in. lift, sliding thread guides for doffing, patent reversible rings, rabbeth and other patent spindles. Patent Self-acting Mule, 360 spindles, $1\frac{3}{8}$in. gauge, spindles 64in. in draw, 2 thread boss rollers, independent drawing-up and backing-off motion, loose boss, top rollers for front row, rollers geared at the headstock, assistant taking-in scroll, scroll band tightening arrangement, self-acting strap relieving and snarling motions, faller shafts working on friction bowls, automatic nosing motion, full cop stopping motion, backing-off chain tightening motion, faller depressing motion, &c. Patent Self-acting Mule, Rhodes's patent, in which the carriage and roller beam travel to and from each other, 360 spindles, $1\frac{3}{8}$in. gauge, 64in. draw, treble boss rollers, loose boss, top rollers to front line, strap relieving motion, anti-snarling motion, &c. Stop-motion Doubling Drum Winding Frame, 26 drums, with Ashworth's patent for stopping the drum when an end breaks. Thompson and Fitton's Patent Self-acting Wheel-cutting Machine, to cut wheels from 1in. to 24in. diameter, pitch $\frac{1}{32}$in. to $1\frac{3}{8}$in.

384 MATHER AND PLATT, Salford Iron Works, Manchester.

Calico Printing Machine for printing from 1 to 10 colours upon cloth up to 34in. wide. Driven by the Manchester Dynamo Motor of 20h.p., worked from Mather and Platt's engines and dynamos in the Electric Lighting Section, at a distance of 100 yards. Patent Electric Calico Singeing Machine to clean the surface

of cloth before printing, arranged with platinum bars which can be instantaneously heated by the passage of an electric current. Apparatus for regulating the temperature of the bars. The singeing machine is driven with a 5h.p. Manchester dynamo motor by chain gear. Patent Friction Clutches and Clutch Couplings, perfectly balanced, for running at high speeds, and so arranged that they cannot be thrown into gear by centrifugal force. Working Model of Electric Railway.

385 SHEPHERD AND AYRTON, Gorebrook Iron Works, Longsight, Manchester.

Improved 10-spindle Self-acting Spooling Machine, with guide lifting and stopping motions. Patent Doubling or Twisting Machine for putting in twists for one turn of the spindle.

385A THE LEE SPINNING CO., 2, Charlotte-street, Mosley-street, Manchester.

Doubling, Spooling, and Making-up of Sewing Cotton.

386 WILLIAM TATHAM & CO., Vulcan Works, Molesworth-street, Rochdale.

One High-class Slubbing Frame, of 36 spindles, fitted with grip spindle rail, and with self-locking loose boss top roller. Carding Engine Bend, for setting rollers and clearers to each other. Samples of Self-locking Loose Boss Top Rollers, &c.

387 DRONSFIELD BROS., Atlas Works, Oldham.

Grinding Frame for revolving flats. Card Mounting Machine. Roller Calender, leather rollers. Grinders and Grinding Rollers. Splicing Machine. Press, with turntable. Sundry Machines for roller covering. Model of Setting Motion for card rollers. Samples of Emery Filleting.

388 EDWARD MOSER, Engineer, Leeds.

Raising Machine, with differential motion and 14 needle-pointed card rollers, to produce with one and the same card a full even nap on any class of light or heavy cotton, woollen, worsted, or mixed cloth.

389 THE BRADFORD MANUFACTURING CO., 29, Canal-road, Bradford, Yorkshire.

Jacquard Loom, weaving a silk handkerchief containing portraits of Her Majesty, the Prince of Wales, and Prince Albert Victor, and pictures representing important events in Her Majesty's life.

390 SAMUEL SPENCER, Clegg-street, Besses-o'th-Barn, Whitefield, near Manchester.

Hank Sizing, Scouring, and Wringing Machine.

391 De Bergue & Co., Limited, Strangeways Iron Works, Manchester.

Portable Pneumatic Rivetter (small size), for 1in. rivets, with piece of girder to show mode of application.

392 W. H. Bailey & Co., Albion Works, Salford, Manchester.

Cymric Pattern Stationary Steam Fire Engine. Besides being ready for fire purposes, it is used to pump from a sump all the water discharged by hydraulic motors about the Exhibition buildings and return the water to the lake, thus economising the consumption of town's water. It will force for fire purposes about two tons of water per minute 150ft. high. A collection of Sandringham Hand Fire Pumps. A collection of Fire Brigade Fittings. A collection of Ladders and other Appliances for Fire.

393 Henry Marriott & Co., 23, Portland-street, Manchester; Newbridge Mills, Stockport.

Thirty-six inch Power Loom, fitted with patent shuttle guard, and weaving coloured cotton fabrics.

394 Joseph Stubbs, Mill-street, Ancoats, Manchester.

Doubling-Winding Frame, drop-wire system, to wind from two or more ends, with self-acting stop-motion. Quick Traverse Winding Frame, drop-wire system, to wind from two or more ends, with self-acting stop-motion. Cotton Gassing Frame. Bobbin Reel for doubler, throstle, or ring-spinning bobbins. The latter fitted with snarl or kink preventors. Cop Reel. Yarn Bundling Press, by hand and power. Piecing Machine for taking knots out of doubled yarn, &c. Automatic Stripper for carding engines.

395 Henry Livesey, Limited, Greenbank Iron Works, Blackburn.

Loom, with drop-box and dobby, for weaving all kinds of fancy goods, such as ginghams, checks, Harvards, lenos, brillantes, &c. Loom for weaving all kinds of heavy fabrics, such as domestics, sheetings, velvets, fustians, &c. Samples of Shuttles, Bobbins, Tubes, and Mill Furnishings.

396 Junction Ironworks Co., Limited, Newton Heath.

Thomas Ashworth's Patent Cup Throstle for spinning and doubling.

397 George Moulton, Whitley-street, Rochdale-road, Manchester.

Engraving Machinery for Calico Printers. Flat Table Pentagraph Machine to engrave rollers 52in. long and 60in. circumference. Double Elevating Bar Pentagraph Machine, fitted with close set levers, new patent side levers, and slash arms. Mill Engraving Machine, with new canting arrangement and driving gear.

398 John & Edward Wood, Victoria Foundry, Bolton.

Corliss Engine, with cylinder 25in. diameter and 5ft. stroke, with Improved Valve Gear. Steam Barring Engine, with Automatic Disengaging Gear. Belt and Rope Pulleys.

399 John and William McNaught, St. George's Foundry, Rochdale.

Machinery for Scouring and Washing Wool. Machinery for Drying Wool.

400 Watson, Laidlaw & Co., Engineers, Dundas-street, Kingston, Glasgow.

Weston's Patent Self-balancing Suspended Hydro-extractor, with centrifugal friction driving pulley for drying textile material. Pivot or underdriven ditto, with high-speed steam engine. Patent Extractor or Centrifugal, with central bottom discharge for drying sugar, chemicals, &c. Patent Self-balancing Cream Separator. Centrifugal Oil Extractor. Hand-power Emulsion Separator for makers of photographic materials. Ditto for laboratory use. Centrifugal Testing Machine for milk, butter, soap, and other substances. Patent Centrifugal and Automatic Friction Driving Pulley. The Kingston Positive Action Pump. Self-oiling Bearings for shafting. Models of Centrifugal Machines. Samples of Chemical and other Substances dried or separated in machines similar to those exhibited.

401 Thomas Broadbent & Sons, Central Iron Works, Huddersfield.

60in. Steam Hydro-extractor, suspended on links, and driven with high-speed direct-acting steam engine, self-contained, and fitted with wire basket for drying textile fabrics. 26in. Self-balancing Hydro-extractor for laundries, underdriven by belt, with perforated tinned copper cage. 48in. Patent Suspended Direct Steam-driven Centrifugal Machine for drying sugar and chemicals. 60in. cage for Hydro-extractor, made of solid copper, and adapted for extracting with acids. Patent Steam Dye-baths, for heating porcelain dye-pots by means of steam.

402 Anglo-American Brush Electric Light Corporation, Limited, 112, Belvedere-road, Lambeth, London, S.E.

Brush Vertical Compound Engine, driving E2 Victoria compound-wound dynamo, by means of Raworth's friction gear. Brush Vertical High-pressure Engine, driving C2 Victoria compound-wound dynamo by means of friction gear. Brush Trunk Engine, driving B2 Victoria compound-wound dynamo direct. Projectors for naval and marine purposes, canal navigation, &c. No. 5L Brush Dynamo, with laminated armature. Armatures for Brush and Victoria dynamos. Ratchet Lamps for 10 and 5 ampère current. Incandescence Lamp Fittings, &c.

403 EDGAR C. MILLS, 49, Victoria Buildings, Manchester.

Automatic Draught Regulator for Heating Apparatus. Boilers.

403A JOHN COCKILL & SONS, Liversedge, Yorkshire.

Condensor Rubbing Leathers.

404 HENRY SIMON, 20, Mount-street, Manchester.

Simon's Four-roller Mill, with fluted rolls. Four-roller Mill, with one pair smooth and one pair fluted rolls. Three-high Heavy Pattern Roller Mill, with smooth rolls. Three-high Roller Mill, with fluted rolls. Three-high Roller Mill, with smooth rolls. Two-high Roller Mill, with smooth rolls. Middlings Purifier. Gravity Semolina Purifiers, with Brush arrangement. Patent Centrifugal No. I., 3 sheets, with double worm and wiper. Patent Centrifugal No. II., 2 sheets, with single worm and wiper. Complete Set of Elevator Ironwork. Broken-bladed Worm, complete. Patent Wrought-iron Pulleys. Friction Clutch in combination with pulley. Turbine, with slide to regulate the water supply.

404A ARTHUR SMART & Co., Robert-street Mill, near Victoria Station, Manchester.

Bunting. Flags. Lamp and Candle Cottons. Engine Waste. Engine Packings. Cotton Driving Ropes, &c., &c.

405 JOHN CAMERON, Oldfield-road Ironworks, Salford, Manchester.

1¼in. Double-ended Patent Cam and Lever Punching Machine. 14in. Double-ram Pump, 12in. stroke, two 26in. cylinders. 6in. Quadruple acting Piston Fire Pump, 8in. stroke, with two 12in. cylinders. Quadruple Ram Pump, having two main rams 5in. diameter, and two auxiliary rams 3½in. diameter, 10in. stroke, two 15in. steam cylinders. 4in. Double-ram Horizontal Pump, 8in. stroke, with 8in. cylinder. 5in. Double-acting Piston Pump, 5in. stroke, with 8½in. cylinder. 5in. Double-ram Box Bedplate Pump, 6in. stroke, two 7in. cylinders. 5in. Double-ram New Patent Pump, 6in. stroke, two 7in. cylinders. 4in. Single-ram Box Bedplate Pump, 6in. stroke, 7in. cylinder. 3in. Single-ram New Patent Pump, 5in. stroke, 5in. cylinder. 2½in. Hydraulic Organ Blower, 11in. stroke.

406 GOODBRAND & Co., Southall Ironworks, Southall-street, Manchester.

Horizontal Steam Engine, 14in. cylinder by 28in. stroke. Horizontal Steam Engine, 3½in. cylinder by 6in. stroke. Diagonal Steam Engine, two steam cylinders 10in. diam. by 14in. stroke. Diagonal Steam Engine, 6in cylinder by 12in. stroke. Quadruple-acting Pump, working barrels 10in. diam., two steam cylinders 20in. by 15in. stroke. Quadruple-acting Stationary Fire Pump, working

barrels 7in. diam., two steam cylinders 12in. diam. by 9in. stroke. 5in. Double-acting Ram Pump, two steam cylinders 7in. diam. by 6in. stroke. 3in. Single-acting Ram Pump, steam cylinder 6in. diam. by 5in. stroke. Double-acting Excelsior Pump, working barrel 3in. diam., steam cylinder 6½in. diam. by 5in. stroke. Anti-Incrustation Pumps, ram ⅞in. diam. by 1½in. stroke. Steam Engine Recorder, patent. Boiler Feed Pumps, with rams 1¼in., 1½in., 2in., 2½in., and 3in. diam. Ram Pump, 2½in. diam. by 5in. stroke, steam cylinder 5in. diam., to bolt to wall.

407 Lancaster and Tonge, Lancaster Works, Pendleton, Manchester.

The Lancaster High-pressure Steam Trap. High-pressure Foreing Steam Trap. Expansion Trap. Spiral Spring Piston, ranging from 52in. down to 4in. 30in. Cylinder, with piston. 7in. and 8in. Cylinders, for practically testing the Lancaster Spiral Spring Piston. Patent Piston Block. Kidd's Patent Automatic Pump, ranging from No. 7 to No. 0. Single and Double Acting Ram Pump (Cameron's principle), fitted with the Lancaster Piston. Vibration Lubricators. Kidd's Patent Cylinder Lubricator. 9in. by 16in. Oblique Engine, fitted with variable expansion gear and regulating governor. 9in. by 12in. Vertical Engine, fitted with the Lancaster Steam Trap. Brass and Iron Valves and Taps, ranging from 10in. to ½in. Boiler Fittings.

408 Arthur Bates, 31, Dutton-street, New Bridge-street, Manchester.

César Corron's Patent Hank Dyeing Machine. Consists of a light framework, with movable carriages, for the automatic and successive transfer of the rods carrying the hanks from one position to another, and for keeping the hanks all the time rotating. Driven by power.

409 Dunderdale Wood & Co., Old Corn Exchange, Hanging Ditch, Manchester.

Nut-finishing Machine. Faces both sides of nut, bevels and chamfers externally and internally at one operation.

410 Small and Parks, 27, Exchange Buildings, St. Mary's Gate, Manchester.

Pneumatic Engine Speed and Fan Pressure Recorder, for recording speeds and pressures at a distance; also night watchman's movements.

411 John J. Royle, 27 & 29, King-street West, Manchester; 13, Red Lion Square, London; 57, Hope-street, Glasgow.

Royle's Patent Syphonia Steam Trap. Patent Full-way Syphonia Traps. Box Steam Trap. Patent Expansion Steam Trap. Patent Return Steam Trap and Hot Water (212°) Boiler Feeder. Patent Compound Steam Trap, or Equalising Box. Patent Oleojector, or Engine Lubricator. Patent Steam Kettle. Patent Reducing Valves. Patent Swivel Unions and Bends. Patent Combined Separator and

Steam Trap, or Steam Dryer. Patent Hydraulic Test Pumps. Assortment of High-class Engineers' Brasswork. Sample Case of Fusible Plugs for Steam Boilers.

412 THOMAS BRADFORD & Co., Crescent Iron Works, Salford; Victoria-street and Deansgate, Manchester; 130, Bold-street, Liverpool; 140, 141, 142, & 143, High Holborn, London.

Steam Laundry Machinery and Appliances. The Crescent Ironing and Finishing Machine. Improved Hydro-Extractor, or Centrifugal Drying Machine for steam power. Model of Bradford's new Patent Safety Superheated Vapour Disinfecting Apparatus. Model of Public Swimming Baths and Washing House.

412A JOSEPH STOTT, 26, Clegg-street, Oldham.

Plans and Perspectives of Cotton Spinning Mills.

413 TANGYES, LIMITED, Birmingham and Manchester.

Exhibits in Motion: Tangyes' Vertical Engine, 8in. diameter cylinder with dynamo. Horizontal Engine, Belfast type, cylinder 12in. diameter by 24in. stroke, with Jefferiss' patent automatic expansion gear. Horizontal Engine, Tangye type, cylinder 8in. diameter by 16in. stroke, with Tangye and Johnson's patent expansion gear. High-Speed Engine, Floyd's patent, cylinder 4in. diameter. Eight-inch Centrifugal Pumping Engine. Special Direct-acting Steam Pump, steam cylinder 12in. diameter, water cylinder 8in. diameter by 24in. stroke. Colonial Ram Pump, steam cylinders 8in. diameter, rams 4in. diameter. Tangyes' Gas Hammer, Robson's patent, ¾cwt. size. Three-spindle Lathe. Cherry's Patent Hydraulic Hoist (Model). 3-ton Overhead Traveller, Cherry's patent. Exhibits not in motion: Tangyes' Centrifugal Pumps, 2in. and 12in. diameter. Self-acting Sliding and Screw-cutting Lathe, Pendlebury's patent, 8in. centres. Wheel Cutting Machine, to cut up to 18in. diameter. 40cwt. D.P. Hoisting Crab, 20cwt. S.P. Hoisting Crab. Assortment of Hydraulic Jacks, Screw Jacks, Hydraulic Bears, Screw Bears, Weston's Pulley Blocks (with Tangyes' Patent Guides), Cherry's Brake Blocks and Rope Blocks. Strainer-plate for paper makers.

414 ARTHUR LOWCOCK, LIMITED, Economiser Works, Shrewsbury, England.

Lowcock's Patent Fuel Economiser (with various forms of inclined bottom box), consisting of 160 heating pipes. Single Boiler Economiser, consisting of 48 solid drawn brass tubes, 2in. diameter and 6ft. long, and 48 colddrawn seamless steel tubes, 2in. diameter and 7ft. long.

415 UNION ENGINEERING Co. (C. Schiele and Co.), 2, Clarence Buildings, Booth-street, Manchester.

One Colliery Ventilator, with engine and belt. One Ventilator for Buildings. One Air Propeller. Two Blowing Fans. Two Exhausting Fans. One Turbine Water Wheel.

416 Price's Patent Candle Co., Limited, Belmont Works, Battersea, London, S.W.

Candle-making Installation, embracing candle machines and specimens of palmitine, Hearine, and other candles, night lights, toilet soaps, &c.

417 Heenan and Froude, Newton Heath Iron Works, Manchester, and Aston-lane, Aston, Birmingham.

Tower Spherical Engine, driving direct Phœnix dynamo machine. Heenan and Froude's Patent Steam Fan. Tower Engine. coupled to Capell Patent Fan. Tower Engine, driving Centrifugal Pump. Steam Pump for circulating purposes, &c. Tower Spherical Launch Engine, fitted with reversing gear. Heenan and Froude's New Patent Arc Lamps.

418 Bentley and Ford, Portland Chambers, Longton, Staffordshire.

Fourteen-inch High-pressure Horizontal Steam Engine, fitted with Bentley and Ford's Patent Equilibrium Slide Valve, with equilibrium automatic variable cut-off or expansion valve.

419 William Turner, Adelphi-street, Salford, Manchester.

Manchester Goods Baling Press, with 18in. cylinder. Several Vertical Single and Double Acting Land and Marine Pumping Engines. Small Horizontal Driving Engine. Patent Automatic Air Injector, for supplying the air vessels of pumping engines with air. Working Model of William Turner's Patent Compound Steam and Hydraulic Cotton Baling Press. Brass Valves and Fittings and Hydraulic Ram Leathers, in show case. White's Injector and Jet Pumps, and Bowers's Separator.

420 Hind and Lund, Atlas Works, Preston.

Roller Mill, fitted with two pairs of chilled iron rolls, one pair of which are corrugated for grinding wheat, and the other pair smooth for grinding middlings or semolina. Patent Centrifugal Silk Flour Dressing Machine, 1½ sheet long. Combined Patent Semolina Grader and Purifier. Sample Stand of Wrought-iron Worm Conveyors. Sett of Elevators. Sample Stand of Chilled Iron Rolls, corrugated and smooth.

421 Walker Brothers, Pagefield Iron Works, Wigan, Lancashire.

Patent Air Compressing Engines. Photographs of Hauling Machinery, to be worked by compressed air and steam; also of Locomotive Machinery in connection with the ventilation of the Mersey and Severn Tunnels. Patent Fans. Schiele Fans. Fisher and Walker's Patent Friction Clutches.

422 GREENALL & Co., 120, Portland-street, Manchester.

Steam Washers for Steam Power, with automatic reversing gear.

423 B. AND S. MASSEY, Steam Hammer Works, Openshaw, Manchester.

70cwt. Arch Framed Steam Hammer, with wrought-iron standards. 3cwt. Pneumatic Power Hammer. 3cwt. Improved Rigby Steam Hammer, with wrought-iron sides. 1½cwt. Overhanging Self-acting and Hand-worked Steam Hammer, with slides. ½cwt. Steam Hammer for suspending to a beam or girder. 1cwt. Drop Hammer. Band Saw for cutting cold metals. Circular Saw for cutting cold metals Circular Saw for cutting hot metals.

424 DANIEL ADAMSON & Co., Engineering Works, Dukinfield, near Manchester.

Pair of Coupled Compound Horizontal Condensing Engines, with automatic expansion gear fitted with a high-pressure cylinder with rope driving. Patent Testing Machine, to test up to 100 tons. This machine is arranged so that the full floating weight of 16lb. will register the maximum load. Observations can be recorded, when the specimen under test stretches 1,500,000 of an inch.

425 BUTTERWORTH AND DICKINSON, Globe Iron Works, Burnley.

Calico Loom, patent loose reed. Calico Loom, fast reed. Patent Dobby, double barrel. Patent Dobby, single barrel. Warping Machine, with patent stop-motion. Warping Machine (falling rod), with patent stop-motion. Winding Machine for cop twist. Cylinder Sizing Machine, with patent friction and patent yarn beam presser.

426 FRED. E. JACKSON & Co., 6, Union-street, Church-street, Manchester.

Four-shuttled Drop-box Looms.

427 WILLIAM BIRCH, Milton-street Iron Works, Broughton-lane, Lower Broughton, Manchester.

Scutcher or Cutler for opening fabrics from the twisted or rope form and detaining the twist. Angular Guides for taking crimps and creases out of fabrics and guiding them automatically and centrally. Metallic Squeezer for squeezing fabrics. Conical Differential Expanders or Stretchers for stretching calicoes, &c. Open Soaper for soaping and washing fabrics. Newly-improved Rotary Sewing Machines for sewing piece ends.

428 P. M. HODGKINSON, Springbank File Works, Stalybridge.

File Cutting by Hand and by Machinery.

429 THE PATENT GRINDING AND POLISHING MACHINE CO., 18, Edmund-street, Birmingham.

Grindstones and Troughs, fitted with patent adjustable guides for obtaining true surfaces. Vice and other work holders and specimens of work.

430 CHARLES WALMSLEY, Atlas Iron Works, Bury.

Three-throw Challenge Fire Pump, with 10in. bucket and plunger pumps, and 14in. steam cylinder.

431 J. WOODROW & SONS, Stockport; 13, Market-street, Manchester; 42, Cornhill, London; 18, Castle-street, Liverpool.

The Process of Making Silk Hats. The Process of Making Fine Fur Felt Hats, both hard and soft, by hand and machinery.

432 GOODBRAND AND HOLLAND, 20, Market Place, Manchester.

Testing Machinery for Cotton and other Textiles. Inventions for Cotton Spinners, and other Textile Manufacturers. Engine Recorders.

433 HARLING AND TODD, Calder Foundry, Burnley.

Fancy Loom, with patent 4-shuttle drop box motion and 16-shaft dobby. Looms for jeans, twills, sateens, and velvets.

434 HENRY PEASE & CO.'S SUCCESSORS, The Mills, Darlington.

Power Loom in operation weaving dress goods. Samples of Cross Warp Serges and Cashmeres.

435 GEORGE KEIGHLEY, Bankhouse Iron Works, Burnley.

Plain High-speed Calico Loom. Strong Calico Loom with twill motion. Sateen and Worsted Loom.

436 PLATT BROTHERS & CO., LIMITED, Hartford Works, Oldham.

Cotton Machinery for Preparing, Spinning, and Weaving, comprising Patent Double Roller Macarthy Cotton Gin, for woolly seeds. Bale Breaker, for breaking up cotton from the bale, and distributing the same to any part of the mixing room. Patent Exhaust Opener and Lap Machine, for 40in. cards. This machine draws its cotton from any part of the room in which it works, or from another room, cleaning the cotton and making it into a lap. Single Scutcher for 40in. cards, with lattice arranged for four laps, and Platt's Improved Pedal Regulator. Single Card, 40in. on wire, by 50in. diameter, and 89 self-stripping flats $1\frac{5}{8}$in. broad, with dish and roller feed. Single Card, 40in. on wire, by 50in. diameter, and 89 self-stripping flats, $1\frac{5}{8}$in. broad, with two feed rollers covered with patent inserted wire. Heilmann's Combing Machine for 8 laps, $10\frac{1}{2}$in. wide, new pattern solid base plate, with cut cam for detaching.

Freemantle's Patent Brush Motion, interchangeable segments for circular combs, coiler and can motion, for cans 36in. by 9in., stop motion for each sliver behind the draw-box, stop motion in coiler cover, stop motion when can is full, making 80 to 95 nips per minute. Drawing Frame, three heads of two deliveries each, with traverse motion, various kinds of top clearers, viz., iron flats, with stationary cloth, Ermen's patent revolving self-stripping clearer, and iron flats for revolving cloths, loose boss top rollers to front row, also loose bush top rollers, tumbler stop motions at the back, stop motion between the front rollers and calenders, stop motion when cans are full, motion to traverse tumblers, weight relieving motion. The front and second rows of bottom fluted rollers are case-hardened. Slubbing Frame, 30 spindles, 10in. lift, bobbins $5\frac{1}{2}$in. diameter, when full, $20\frac{1}{2}$in. staff, spindles 36in. long, $\frac{13}{16}$in. diameter, common collars $5\frac{1}{2}$in. long, double centrifugal presses, dividing plates, locking apparatus to knocking-off motion, Marsh's patent footsteps, loose boss top rollers to front row. The first and second rows of bottom fluted rollers are case-hardened. Intermediate Frame, 42 spindles, 10in. lift, bobbins $4\frac{3}{4}$in. diameter when full, $26\frac{3}{8}$in. staff, spindles 36in. by $\frac{3}{4}$in., Mason's long collars, single centrifugal pressers, loose boss top rollers for the front row, locking apparatus. The first and second rows of bottom fluted rollers are case-hardened. Roving Frame, 60 spindles, 7in. lift, bobbins $3\frac{5}{8}$in. diameter when full, Mason's long collars, $20\frac{1}{2}$in. staff, spindles 30in. by $\frac{5}{8}$in., single centrifugal pressers, locking apparatus, loose boss top rollers to the front row. The first and second rows of bottom fluted rollers are case-hardened. Warp Ring Spinning Frame, 124 spindles, 5in. lift, $2\frac{1}{2}$in. distance, $1\frac{1}{2}$in. diameter inside ring, with patent flexible spindle, thread board adjustable for anti-ballooning, rod for carrying doffing tin, patent creel, two tin rollers 10in. diameter, loose boss top rollers to front row. Front row of bottom fluted rollers are case-hardened. Patent Weft Ring Spinning Frame, 140 spindles, $2\frac{1}{4}$in. distance, $1\frac{1}{16}$in. diameter inside the ring, to spin weft cops on bare spindle, or on short or long paper tubes, patent ring and traveller, patent doffing motion, patent creel, thread board to lift with ring rail, two tin rollers 10in. diameter, loose boss top rollers to front row. Front row of bottom fluted rollers are case-hardened. Self-acting Cotton Mule, 132 spindles, $1\frac{3}{8}$in. distance, 17in. spindles, 64in. stretch, specially adapted for medium counts, all three lines of bottom fluted rollers are case-hardened, loose boss top rollers to front row, with travelling scavengers, patent rope tightening apparatus to rope taking in, scroll band tightening frame, patent clip for fastening scroll bands, click locking motion, patent automatic nosing motion, backing-off chain tightening motion, Palmer's patent step covers on left-hand side, and Travis's patent cover on right side, double carriers at the headstock, three-grooved rim band arrangement, casehardened tin roller arbors $1\frac{1}{4}$in. diameter, Blamire's patent plate bolsters. Cop Reel for 10 hanks. Plain Calico Loom, 42in. reed space, overpick, iron yarn and back rollers, weft stop motion, positive taking-up motion, Cowburn and Peck's patent positive easing motion, self-acting double-capped temples, Singleton's patent loose reed, chain weighting for yarn beam. Fustian or Velvet Loom, 56in. reed space,

iron back roller and wood yarn roller, weft stop motion, worm taking-up motion, patent temples, Clegg's picking motion, chain weighting for yarn beam, Nuttall's patent oscillating tappits, 10 shafts, Shiers and Wright's patent system of driving oscillating tappits, patent governing chain, which enables a long pattern to be woven with a short bowl chain. Worsted Machinery for Combing, Drawing, Roving, Spinning, and Weaving, comprising Screw Gill Lap Machine, one head of one delivery, to make laps for Little and Eastwood's Circular Wool-combing Machine. Little and Eastwood's Patent Circular Wool Combing Machine, 3ft. 3in. circle, with coiler and can motion, for combing Colonial and South American wool. Screw Gill Balling Machine, one head of two deliveries, to make two balls, for finishing after combing. First Drawing Frame, 4 boxes, 8 porcupines, 4 bobbins, for preparing worsted on the French system. Second Drawing Frame, 4 boxes, 8 porcupines, 4 bobbins, for preparing worsted on the French system. Slubbing Frame, 4 boxes, 8 porcupines, 8 bobbins, for preparing worsted on the French system. Roving Frame, 4 boxes, 8 porcupines, 8 bobbins, for preparing roving bobbins for the self-acting mule, on the French system. Self-acting Worsted Mule, 110 spindles, $1\frac{11}{16}$in. distance, 17in. spindle, 63in. stretch, all four lines of bottom-fluted rollers case-hardened, patent rope band tightening apparatus to the rope taking-in, scroll band tightening frame, patent clip for fastening scroll bands, click-locking motion, patent automatic nosing motion, backing-off chain tightening motion (special arrangements are made by which the spindles can be driven either twist or weft way without cutting either the spindle bands or rim band), Palmer's patent step covers, double carriers at the headstock, four grooved rim band arrangement, case-hardened tin roller arbors $1\frac{1}{4}$in. diameter, anti-friction bowls for faller shaft, plate bolsters and footsteps on right side, and pipe bolsters and steps on left-hand side. Power Loom to weave fancy woollen and worsted goods, Low pattern, with lathe centre at the bottom of the loom, 96in. reed space, with four shuttle boxes on each side, jacquard for 28 shafts, fitted with ungearing and reversing motions for turning back the loom to the broken weft without moving the shuttles, patent weft stop motion, worm and wheel letting-off motion, balance taking-up motion, single roller temple, wood-legged yarn and cloth beams, 6in. wrought-iron tube back roller, wood shuttles. Machinery for Preparing, Spinning, Doubling, and Weaving Wool, comprising one Single Scribbler, 48in. on wire, with hand-feed, patent covered feed rollers, 2in. diameter; burr roller, 12in. diameter; guard roller and dirt box, angle stripper, 4in. diameter; cylinder, 50in. diameter; 6 workers, 8in. diameter; 6 strippers, 2in. diameter; fancy, 12in. diameter; doffer, 30in. diameter; fly comb, and balling machine. Single Clearer, 48in. on wire, with bank feed, heck or sliver guide, plain feed rollers, 2in. diameter; taker-in, 6in. diameter; angle stripper, 5in. diameter; cylinder, 50in. diameter; 6 workers, 8in. diameter; 6 strippers, 2in. diameter; fancy, 12in. diameter; doffer, 30in. diameter; fly comb, roping apparatus or side drawing for Scotch feed. Single Carder, 48in. on wire, with Scotch feeder, plain feed rollers, 2in. diameter;

taker-in, 6in. diameter; angle stripper, 5in. diameter; cylinder, 50in. diameter; 6 workers, 8in. diameter; 6 strippers, 2in. diameter; fancy, 12in. diameter; doffer, 30in. diameter; fly comb, and Bolette's patent steel tape condenser, with Platt's patented improvements for 100 good and two waste threads on four bobbins of 25 threads per bobbin. Grinding Machine for 48in. cards, with movable bearings, adapting it to any less width of card. Self-acting Woollen Mule, 100 spindles, 2in. distance, 18in. spindle, 72in. to 76½in. stretch, with patent rope tightening apparatus to rope taking-in, patent nosing motion, double speed and drawback motion, double speed at any part of draw, stop motion, spindle stop motion, plate bolsters for left side and pipe bolsters for right side, case-hardened tin roller arbors 1¼in. diameter, coupling spindle in headstock and tin roller shaft in square can be removed without removing the rollers. Woollen Doubler, 24 spindles, 4in. distance, 24in. staff, 2¾in. rings, for plain and fancy yarns, including spotting, intermittent, yarn looping, and variable spinning motions.

437 Howard and Bullough, Globe Works, Accrington.

Single Beater Scutcher, with adjustable air bars. Revolving Flat Carding Engines, with electrical adjustment of flats to cylinder at speed. Drawing Frame, with electric stop motions. Slubbing and one Intermediate, with electric stop motion. Roving Frame, with new differential motion. Ring Throstle for Twist. Ring Throstle for Weft. Ring Frame for Doubling. Slasher Sizing Machine, 7ft. and 4ft. cylinders of copper.

438 J. S. Fry & Sons, Bristol; and 252, City-road, London.

Chocolate and Cocoa. The manufacture of chocolate c n-fectionery illustrated by machinery in motion.

439 James Broughton & Co., Dutton-street Iron Works, Dutton-street, New Bridge-street, Manchester.

Three-bowl Lever Friction Calender, with one bottom iron bowl 20in. diameter. Chilled-iron Cylinder Bowl, 13in. diameter, arranged for heating by steam. White Cotton-paper Bowl, 22in. diameter, and 42in. long on working face, driving gear consisting of large spur wheel and pinion, countershaft, expanding cones 36in. diameter. Brown Paper and a Raw Cotton Bowl, partly in the rough and partly finished, illustrating the process of manufacture. Samples of Brown Bowl Paper, White Linen do., and White Cotton do. Samples of Bowl Cotton and Raw Bowl Cotton.

440 Robert Broadbent & Son, Phœnix Iron Works, Stalybridge.

Warburton and Broadbent's Patent Drum Winding Frame, with conical drums on one side and parallel drums on the other side, fitted with Broadbent's patent lever traverse motion, patent carrier springs, and patent stop-motion. One case of Loose Boss Top Rollers.

442 Crighton and Sons, Castlefield Iron Works, Knot Mill, Manchester.

Express Roving Frame (Higgins's principle) of 60 spindles, with patent long collars and patent swivel attachments to rails. Bobbin 7in. by $3\frac{1}{2}$in.

443 Samuel Brooks, Union Iron Works, West Gorton, Manchester.

Automatic Lemaire Feeder, for woollen and worsted cards. Drawing Frame for Cotton, &c., one head of three deliveries; four lines of fluted rollers; 16in. gauge; coiling, can-turning, and Brooks's patented front and back sliver; back knocking-off, can-filling, and traverse motions; iron flats for stationary cloth, loose boss rollers, weight-relieving motion, &c., complete. Ring Spinning Frame for Weft, containing 68 spindles, $2\frac{1}{4}$in. gauge, $1\frac{1}{4}$in. rings, 5in. lift, self-contained Union spindles for high speeds, and springs on for holding spindles in position; two tin rollers, 10in. diameter, three lines fluted rollers mounted in inclined stands, all three rows top rollers weighted by saddle, lever, and weight; front line rollers loose boss; two-height creel for single roving; patent thread board lifting motion for instantaneously turning up all the thread boards for doffing; patent knocking-off motion for automatically stopping frame when pirns are full; patent travelling thread guide; revolving clearers, with patent adjustable fixings on one side frame, and patent travelling cone clearer on the other side; rope driving and tension pulleys for driven tin roller; girder rail and angle beam; lifting motion by bowls and chains. Ring Spinning Frame for Warp, containing 60 spindles, $2\frac{5}{8}$in. gauge, $1\frac{5}{8}$in. rings, 5in. lift, self-contained Union spindles for high speeds; front top rollers weighted by hooks and weights, and second and back row self-weighted; front row rollers, loose boss; patent anti-ballooning apparatus; patent finger bar and wires for holding down wharves, and motion to release all at one time for oiling; rope driving and tension pulleys for driven tin roller; girder rails and angle beams; lever-lifting motion. Ring Doubling Frame for Sewing Cottons; one side arranged on the Scotch system, and one side on the English system, 58 spindles, $2\frac{3}{4}$in, gauge, 2in. rings, 4in. lift; patent Ferguslie and union spindles for high speeds, and improved springs on for holding spindles in position; $2\frac{1}{2}$in. diameter hollow brass bottom rollers, solid top rollers covered with brass, and on Scotch system, rollers working in copper troughs so as to be partially immersed in water, with lifting motion to raise rollers when cleaning the trough, and on English system with trough behind rollers, and motion to lift glass rods out of trough for cleaning; patent tapering motion; two-height porcupine creel; two tin rollers, 10in. diameter; rope driving and tension pulleys for driven tin roller; girder rails, &c., complete. Ring Doubling Frame, for two or three fold, with patent automatic stop motion for each end, to stop both spindle and delivering roller simultaneously, 52 spindles, $3\frac{3}{8}$in. gauge, $2\frac{1}{4}$in. rings, $4\frac{1}{2}$in. lift, self-contained spindles, Rabbeth system; two tin rollers, 10in.

diameter, and with rope driving and tension pulleys for driven tin roller; solid bottom rollers, $1\frac{3}{4}$in. diameter, plain polished; solid top roller, 3in. diameter, plain polished; cop creel, &c., complete. Ring Doubling Frame for Wool, with trap motion, 52 spindles, $3\frac{1}{2}$in. gauge, $2\frac{1}{4}$in. rings, $4\frac{1}{2}$in. lift, union spindles for high speed, and improved springs on for holding spindles in position; two tin rollers, 10in. diameter; vertical trap rollers, covered with leather, $2\frac{1}{2}$in. diameter, with special trap spindle, and $4\frac{1}{4}$in. diameter tin rollers; porcupine creel for two bobbins to each spindle; rope driving and tension pulleys for driven tin roller. Hill and Brown's Patent Winding Frame, to wind yarn on to paper tubes or bobbins without heads, 12 drums; one side fitted with creel for winding two or more ends on to one parallel spool, 5in. traverse, with patent automatic stop motion to each end, and one side for winding from one end; parallel and conical spools, 2in. and 4in. traverse; creel arranged to wind from cops, bobbins, and hanks. American Standard Spinning and Doubling Travellers, in steel and composition, of the various shapes and sorts used on the Ring system of spinning and doubling. Show Case containing Samples of Bobbins, Single and Double Yarn, Spools, wound on the Hill and Brown Winding Frame, Crochet and Sewing Cotton Balls, made on the Ferguslie Balling Machine, various sizes of Rings, assorted Spindles, patented and otherwise, Loom Temples, Wrap Reel, double traverse, Yarn Quadrant, Improved Hygrometer, Hank Indicators, Oil Measures andPumps, Spindle Speed Indicators, Samples of Round Top Clearers and Walkers' Patent Fixings, Fluted Rollers for drawing and spinning frames Brass Covered Rollers for doubling frames, Patent Ante-Ballooning Apparatus, general accessories, &c.

444 SAMUEL WALKER, Eagle and Atlas Works, Radcliffe, near Manchester.

Single Carding Engine 40in. on the wire; cylinder, 48in. diameter; doffer, 26in.; 6 rollers 6in. diameter, 5 clearers $3\frac{1}{4}$in. diameter; 2 dirt rollers $8\frac{1}{2}$in. diameter, licker-in, 9in. diameter; fancy roller, 9in. diameter, to work underneath the cylinder, adjustable note knife, self-lubricating combstock drawbox, with 2 lines of rollers, coiler for cans 36in. by 10in., dish-feeder with $2\frac{1}{4}$in. rollers, and solid baywood covers. Drawing frame: Head with 4 deliveries and 4 lines of rollers, gauge of frame $14\frac{5}{8}$in., with coilers for cans 36in. by 9in., with all stopping motions for back and front, and also for stopping the frame when the cans are full. Cast-iron top clearers with loose wood linings, loose boss top rollers for the front line. Roving frame with 56 spindles, bobbins 7in. by $3\frac{3}{4}$in., with Mason's collars, gauge, 8 spindles in $20\frac{1}{2}$in., spindles $33\frac{1}{2}$in. by $\frac{11}{16}$in., Bodden's single centrifugal pressers to flyers, loose boss rollers to the front top line. Ring, Frame with 72 spindles 6in. lift and $2\frac{3}{4}$in. gauge, rings $1\frac{3}{4}$in. diameter, Bodden's self-oiling rabbeth spindles, 2 tin rollers 10in. diameter, revolving top and under-clearers with improved bearings.

445 JOHN MUSGRAVE & SONS, LIMITED, Globe Iron Works, Bolton.

Horizontal Compound Steam Engine, 4ft. stroke, high-pressure cylinder 21in. diameter, low-pressure cylinder 37in. diameter, fitted with Musgrave's patent traversing Corliss valves, automatic slip motion and quick speed governor, fly rope drum 20ft. diameter, grooved for fifteen 1½in. ropes, Whitworth hollow compressed fluid steel crank shaft and crank pin. The engine is prepared for the application of condensing apparatus. Turning or Barring Engines, with Musgrave's patent automatic safety apparatus.

446 JOHN GREENHALGH & SONS, Vulcan Iron Works, Oldham.

Patent Self-acting Flake and Delivery Willow for cleaning cotton waste, &c. Patent Self-acting Rope-opening Machine, with cutter attached.

447 FAWCETT, PRESTON & Co., Phœnix Foundry, 17, York-street, Liverpool.

Copper Vacuum Pan and Vertical Vacuum Engine, for evaporating or concentrating liquids at low temperature.

448 JOHN HORROCKS & SON, Parker-street Mill, Ashley-lane, Manchester.

Patent Stop-motion Doubling Winding Machine.

449 WILLIAM CROSLAND, New-street, Miles Platting, Manchester.

Patent Advance Self-clamp Paper Cutting Machine. Corner-Thumb-hole, and Universal Cutting Machine. Roller Scoring Machine. Millboard and Pasteboard Cutting Machine.

449A JAMES SAVILLE & SONS, Adelphi Bowl Works, Blackburn-street, Adelphi, Salford.

Cotton and Paper Bowls, Brass and Chilled Iron Bowls, Paper Friction Pulley, Pot Eyes.

450 JOSEPH ARMYTAGE WADE, Hornsea, near Hull.

A Helical Centrifugal Pump. By the addition of a powerful screw filling a cylinder, which conveys water from the tail pipe to one or both sides of a centrifugal disc, very superior results are obtained in the depth below the shaft from which water may be drawn—this has under favourable circumstances reached 32ft. 8in.—and consequently in the output of the water. An Eccentric Grip to a lever, holding firmly without the aid of a screw or of notches, and avoiding both danger and noise.

450A THE ALLEN MACHINE Co., LIMITED, Victory Works, Halifax, England.

Gumming Machines. Gumolene. Specimens of Electro-Bronzing and Nickel Plating.

450B THE PATENT HEALD AND EYELETT MACHINE CO., Wm. Bateman, Secretary, 63, Church-street, Manchester.

This Exhibit is worked by JOHN HEYWOOD, Official Printer and Bookbinder.

Machine for Folding and Eyeletting Labels for luggage and other purposes.

451 W. C. HORNE, 6, Dowgate-hill, Cannon-street, London, E.C.

This Exhibit is worked by JOHN HEYWOOD, Official Printer and Bookbinder.

Martini Patent Folding Machine. Smyth Patent Book-sewing Machine. Harper Patent Wire-stitching Machine. Horne's Patent Rolling and Wrappering Machine for newspapers and journals. Gathering Machine for sections of books. Archer Patent Paper Feeding Machine. Pépé Cold Process Matrice Drying Machine. Patent Luminous Cards, Balmain's patent for printing-machine work

452 AUGUSTUS BREHMER, 33 and 35, Moor-lane, London, E.C.

This Exhibit is worked by JOHN HEYWOOD, Official Printer and Bookbinder.

Machines for sewing and stitching books and pamphlets with wire or thread.

453 JOHN GALLOWAY, 14, Charlotte-street, Manchester.

Model of Pole Press. Model of Munich Lever Press. Model of Star Cylinder Press. 16in. Modern Lithographic Press. Double Crown Lithographic Machine. Ink Slab, Stones, and sundries.

454 FURNIVAL & Co., Reddish Ironworks, Reddish, near Stockport.

This Exhibit is worked by JOHN HEYWOOD, Official Printer and Bookbinder.

Double Royal Wharfedale Printing Machine, with Flyers, for jobbing and fine bookwork. Half-Demy Wharfedale Printing Machine, with Flyers, specially built to run at a high speed. Quad-Crown Lithographic Printing Machine, for fine chromos and oleographs. Self-clamp Guillotine Cutting Machine. Foolscap-Folio Caxton Platen Printing Machine.

455 THE MODEL PRINTING PRESS CO., 3, Ludgate Circus Buildings, London, E.C.

Treadle and Hand-lever Printing Machines. Guillotine Paper Cutters. Little Giant and Model Brass Rule and Lead Cutters. Rotary Mitreing Machines. Wire Binders and Stitching Machines. Patent Twin Quoins. Gauge, or Laying-on Pins. Printing Materials.

456 TAYLOR, GARNETT, & Co., *Manchester Guardian* Office, 3, Cross-street, Manchester.

Buxton, Braithwaite, & Smith's Patent Single-cylinder (Wharfedale) Perfecting Machines, and Buxton, Braithwaite, & Smith's Guardian Patent Duplex Fast Folding Machines.

456A JAMES SALMON, Blackfriars Bridge, Manchester, and 60, Friday-street, Cheapside, London, E.C.

48in. Victory Patent Self-Clamp Guillotine Cutting Machine. Four-Crown Guardian Duplex Folding Machines, Buxton, Braithwaite,

and Smith's Patent. Double-Demy Patent Wharfedale, fitted with Mark Smith's Patent Taking-off Apparatus. Demy Patent Wharfedale, fitted with Salmon, Smith, & Co.'s Patent Taking-off Apparatus. Crown Folio Mitre Platen Machine. Salmon's Improved Treadle Disc Paging Machine. Salmon's Improved Treadle Lightning Paging Machine. Hand Lever Paging Machine. Salmon's 30in. Treadle Perforating Machine. 10in. Hand Lever Perforating Machine. Patent Automatic Wire Stitching Machine for Books. Hand Lever Wire Stitching Machine for Books. Hand Lever Automatic Wiring Stapling Press for Books. Patent Lightning Box Wiring Machine. Box Makers' Cornering Machine. Rotary Treadle Scoring Machine. Millboard Cutting Machine. Specimens of Letterpress and Lithographic Inks, manufactured by the London and Provincial Printing Ink Co. Specimens of Dry Colours, manufactured by the London and Provincial Printing Ink Co.

457 Alex. Seggie & Son, Broughton Engineering Works, Edinburgh.

Horrocks & Co.'s Chromo-Lithographic Work, on Quad-Crown Edinburgh Machine.

458 G. Mann & Co., Elland-road Works, Leeds.

Double-Demy Wharfedale Climax Letterpress Machine, with flyer, oscillating geared riders, and cylinder check; double rolling and fly elevating arrangement. Double-Demy Climax Lithographic Machine, with Wharfedale flyers, damping apparatus, &c.; also with cylinder brake and diagonal rolling arrangement.

458a McCorquodale & Co., Limited, Printers, Chromo-Lithographers, Account Book Manufacturers, &c., Leeds, Newton-le-Willows, and London.

Letterpress Printing from Blocks, Electros, &c. Lithographic Printing, Colour and Commercial, with various specimens of the same.

458b Irvin and Sellers, Preston and Liverpool.

Bobbins and Shuttles used in spinning and manufacturing cotton, flax, silk, and wool. Hardwood Turnery used by electric light and bell manufacturers. Specimens of American Sawn Woods and Foreign Hardwood Logs used in the manufacture of the above.

459 Smith, Barber, & Farnworth, 37, Fountain-street, Manchester.

Letter-press Printing.

459a H. Garside, 21, Cannon-street, Manchester.

Collection of Photographs of Machinery.

460 John Neill, Great John-street, Manchester.

Chromo-Lithographic and Letterpress Printing Machinery.

460A JOHN INGHAM & SONS, Croft Head Works, Thornton, near Bradford.

Shuttles and Pickers for the weaving of worsteds, cottons, silks, alpacas, mohairs, ribbons, flax, linens, carpets, woollens, worsteds, coatings, blankets, fustians, lastings, damasks, moreens, &c, &c. Shuttle Pikes for spools, pirns, and cops.

460B ABRAHAM KERSHAW & SON, Brow Mill, Clayton, Bradford, Yorkshire.

Reeds and Healds for weaving textile fabrics.

461 JOHN RATCLIFF & SONS, Junction Foundry, Upper Wortley, Leeds.

Double-Demy Lithographic Printing Machine.

461A HORROCKS & Co., Town Hall Works, Ashton-under-Lyne.

Specimens of Engraving and Colour Printing. Embossing. Bookbinding.

461B JAMES AND AARON WILKINSON, 6, St. Oswald-street, Rochdale-road, Manchester.

Shuttles for weaving cotton, silk, worsted, linen, jute, ribbon, smallwares, &c. ; also Picking Sticks and Pirn Bobbins.

462 THOS. THOMAS & SONS, Acme Hoist Works, Cardiff.

Self-sustaining Hoisting Machinery. Passenger Elevator, to carry four persons, shown at work conveying visitors to and from the galleries of this section. Hand-power Single Warehouse Lift. Hand-power Single Dinner Lift. Single Grocer's Sack Lift. Double Grocer's Sack Lift. Derrick Winch for one ton direct from the barrel. Hoisting Crab for one ton direct from the barrel.

462A THOMAS CROMPTON, Lock and Hinge Manufacturer, Ashton, near Wigan.

Best Wrought Welded Iron Hinges for shipbuilders', locomotive engineers', and general builders' requirements. Gothic Ornamental Scroll Hinges for ecclesiastical work. Banbury Stock and Plate Locks, suitable for churches and general builders. Strong Handles and Thumb Latches.

463 LUKE AND SPENCER, LIMITED, Lime Bank Works, Lime Bank-street, Ashton Old-road, Ardwick, Manchester.

Grinding Machines, with emery discs, as follows: Automatic Surfacing Machine, 36in. Double Tool Grinder, with Twist Drill attachment, &c. ; Self-acting Wheel Tooth Cleaning Machine, Saw Sharpening Machine, Automatic Wood-plane Iron Grinder, Universal Grinders, Horizontal Grinder, Automatic Machine for Grinding Chilled Rolls.

463A THOS. BRADBURN & SONS, Great Charles-street, Birmingham.

Rules in Boxwood, Ivory and Steel. Squares, Iron and Steel. Measuring Tapes, wind-up and spring.

464 KENDALL AND GENT, Victoria Works, Manchester.

Brown's Patent Screwing Machine, to screw bolts and tap nuts up to 2in. diameter, and fitted with new patent automatic relaxing motion. One ditto, to screw up to 1½in. diameter. 7in. Centre Open-spindle Capstan Rest Chasing Lathe, for making screws and studs up to 1½in. diameter from the solid bar. 8in. Centre Hollow Spindle Lathe for turning and chasing screws, &c., up to 2in. diameter. Universal Milling Machines B and C sizes. Vertical Milling and Profiling Machine, B size. 10in. Centre Duplex Sliding, Surfacing, and Screw-Cutting Lathe, with 14ft. gap bed. Rawlinson's Patent Mechanical Grindstone. Rawlinson's Patent Tool-holders. 7in. Centre Brass Finisher's Lathe, specially adapted for boring, turning, facing, and screwing all kinds of brass fittings whether parallel or taper. Cutter Grinding Machine, for milling cutters of various forms. Cutter Forming Machine, for making milling cutters of any section. Vertical Drilling and Tapping Machine.

464A FRANK REDDAWAY & Co., Cheltenham - street, Pendleton, Manchester.

Camel-hair Machine Belting. A belt made from animal fibre warp and vegetable fibre weft. Cotton Canvas Belting made from union canvas. Canvas Hose for fire brigades, &c.

465 JOHN PICKLES & SON, Royd Iron Works, Hebden Bridge, via Manchester.

Wood Planing Machines, with Rawling's Patent Spiral Cutters and Grinders. Wood Planing and Surfacing Machine. Cutter Grinding Machine. Circular Saw Bench, with patent saw guard.

465A R. W. HARRISON & Co., 48 and 50, Darwen-street, Blackburn; works, St. Peter-street.

Steam Packings of all kinds. Diamond Star Patent Engine Packings. Jointings. Belting Syrup and Asbestos.

466 THOMAS ROBINSON & SON, LIMITED, Railway Works, Rochdale.

Roller Feed Saw Bench, with foot lever for moving feed roller. Tenoning Machine, with double tenoning arrangement and light scribing apparatus. Combined Hand and Power Feed Planing Machine. Hand-feed Planing Machine with outside block 4in. wide, for moulding, and fitted with sawing apparatus. Band-sawing Machine fitted with wheels of the bicycle pattern. Dovetailing Machine. Self-acting Grinding Machine for plane irons. Moulding

Machine with top block to cant. Panel Planing Machine with side cutter blocks. Mortising and Boring Machine fitted with automatic reversing chisel. Double Horizontal Roller Mill, fitted with four smooth rollers for flour, &c.

467 SHARP, STEWART & Co., LIMITED, Atlas Works, Manchester.

Planing Machine, to plane 10ft. long, 4ft. wide, and 4ft. high, with three toolboxes, and improved feedgear. Screwing Machine to screw and tap from ½in. to 1¾in., with Taps, Dies, Master Taps, &c. 10in. Self-acting, Sliding, Surfacing, and Screw-cutting, Gap Lathe, with bed 10ft. long. A selection of injectors, viz., Patent Exhaust Steam Injectors, high and low pressure; Friedmann's Patent Non-lifting Injectors for Locomotives; Atlas Pattern Live Steam Injectors; Standard Pattern Live Steam Injectors; A Sectional Model of Patent Exhaust Steam Injector.

468 HULSE & Co., Ordsal Works, Regent Bridge, Salford, Manchester.

Hollow Spindle Turning and Screwing Lathe, with capstan rest, Broad Traverse Planing Machine. Vertical Drilling and Boring Machine. Radial Drilling and Boring Machine. Vertical Milling and Drilling Machine, with numerous automatic and reversing actions. Horizontal Milling Machine, with self-acting table. Self-acting Wheel-cutting and Dividing Machine, for cutting spur, bevel, or worm wheels. Swivel Tool-holders and Cutters. Surface Plates, &c.

468A W. B. WHITE, Red Scar Spring Works, Colne, Lancashire.

Weft Forks and Fork-nolders. Shuttle Pegs and Guards. Shuttle Pikes. Spring Swells. Tempered Steel Springs. Perforated Sheets and Strips. Picking Balls. Studs and Sticks. Cop Skewers. Weft Grates. Springs and Spindles. Patent Oil Cisterns.

468B ROBERT PICKLES, Cairo Mill and Buccleuch Mill, Burnley.

Patent Shuttles and Samples of Wood used for shuttles. Samples of Wood after being subjected to a pressure of 1,500 tons, or 20 tons to the square inch.

469 R. & J. DICK, Greenhead Works, Glasgow.

The Process of Manufacturing Round and Flat Driving Bands, made of a combination of gutta-percha, balata, and cotton canvas. The process of making Boots and Shoes with gutta-percha and balata bottoms. The Manufacture of Ventilating Inside Soles for boots and shoes. A general exhibit of Gutta-percha Articles of our own manufacture, including Shoes and Pads for Horses, Buckets, and other Colliery Furnishings; Golf and Cricket Balls, &c., &c.; also the Manufacture of a new Patent Waterproof Cotton Sole for boots and shoes. A varied collection of raw material.

469A WILLIAM COWAN, Buccleuch-street Works, Edinburgh.

Meter for measuring water and other liquids.

470 JOHN COWLEY & SON, Clarendon-street, Hyde, near Manchester.

Screwing Machines for gas and steam tubes; Screwing Machines for bolts and nuts; Screwing Machines for square threads; Selection of Engineers' and Gas and Steam Fitters' Tools

471 JOSHUA HEAP & CO., LIMITED, Oldham Road Engineers' Tool Works, Ashton-under-Lyne.

Portable Screwing Machines for tubes. Portable Screwing Machines with fitters' work-bench on wheels. Engineers' and Gas and Steam Fitters' Hand Tools and Screwing Tackle. Bolt Screwing and Nut Tapping Machines.

472 DOWNING & CO., 65, Sackville-street, Portland-street, Manchester.

Corks and Corkwood. Wine, Ale and Porter Corking, Filling, Bottle Washing, and Capsuling Machine. Capsules, Sealing Wax, Bottle Brushes, Tin and Wood Tops, and all trade sundries.

473 BRADBURY & CO., LIMITED, Wellington Works, Oldham, and 7, Deansgate, Manchester.

Rotary Shuttle Sewing Machines, wheel-feed for leather work. Rotary Shuttle Sewing Machine, step-feed, for tailoring and manufacturing purposes. Repairing Machine, for repairing boots and shoes, and sewing elastics in boots. Capstan Lathes 5in. and 7in. centres. Single Speed Milling Machine. Spindle Bench Drilling Machine. Steam Power Bench, with driving tackle complete, for working above-named sewing machines.

474 J. BENNETT VON DER HEYDE, Bridgewater Chambers, 6, Brown-street, Manchester.

Perfect Pulley. Adjustable Ball and Socket Shaft Hangers. Friction Coupling, Shafting, and other fittings.

475 J. S. AND G. F. SIMPSON, 26 to 36, Rodney-street, Brooklyn, E.D., N.Y., U.S.A; sole agents, Cunningham Shaw & Co., Liverpool.

Bogardus Original Universal Eccentric Mill, with guide pulley attachment. Ditto, with bevel gearing. Ditto, with Guide Pulley attachment. Countershaft.

476 WILLIAM TEGGIN, 58, Faulkner-street, Manchester.

Process of Letterpress and Lithographic Printing and Label Punching.

477 S. Charlesworth & Co., Richmond Hill Iron Works, Oldham.

Demy Advance Lithographic Printing Machine. Kleinertz Patent Bronzing Machine. Kleinertz Patent Dusting Machine.

478 J. E. H. Andrew & Co., Limited, Reddish, near Stockport, and 80, Queen Victoria-street, London, E.C.

Stockport Patent Silent Gas Engines (Horizontal). One ¼h-p. Bisschop Patent Gas Engine, vertical type.

479 Robert Dempster & Sons, Rosemount Iron Works, Elland, Yorkshire.

Gas Engines (Campbell's patent).

480 W. H. Torrance, 19 & 20, North Bruntsfield Place, Edinburgh.

Scotch Bakery. Rusks, sweetened and unsweetened. Kettledrum Shortbread, Kettledrum Oatcakes, Kettledrum Gingerbread.

481 Lee and Hunt, Arkwright Tool Works, Nottingham.

Self-acting Cold Iron and Steel Sawing Machine, with saw 24in. diameter, to crosscut joist section up to 24in. by 6in. and round or square bars up to 5½in. and with quick return motion. Cold Iron and Steel Sawing Machine, with saw 12in. diameter, to crosscut joist section up to 10in. by 3in., and round or square bars up to 2¼in., with hand feed. Universal Self-acting Milling Machine, with 2ft. traverse to table.

482 Hind and Lund, Atlas Works, Edward-street, Preston.

Paint Grinding Roller Mill, having three granite rolls, 30in. in length by 14in. diameter. Pug or Paint Mixing Mill. Liquid Paint Mixing and Grinding Mill.

483 Craven Bros., Limited, Vauxhall Iron Works, Osborne-street, Manchester.

Sawing Machine, for cutting metals cold, diameter of saw 1ft. 9in., traverse 1ft. 3in., table 4ft. 6in. by 3ft. Sawing Machine, for cutting rising heads off steel castings, ingots, &c., diameter of saw 8ft., traverse 3ft. 2in., table 7ft. by 6ft. Sawing Machine, for cutting rising heads off steel castings, ingots, &c., diameter of saw 1ft. 9in., traverse 8in., table 2ft. 9in. by 1ft. 6in. Vertical Drilling and Boring Machine, will admit 4ft. diameter, 2¾in. spindle, with chasing arrangement on spindle. Universal Horizontal Milling Machine, for general work, with rising and falling table. Vertical Milling and Drilling Machine, for locomotive engine cylinders and general work. Self-acting Sliding, Surfacing and Screw-cutting Gap Lathe, 10in. centres, 10ft. bed. Face Lathe, with 30in. diameter, jaw chuck, duplex compound slide rests. Group of Four Machines for making boiler fire box stay bolts, consisting of Cutting-off Machine, Straightening and Centreing

Machine, Slide Lathe, with copying motion, and Automatic Chasing Lathe. Slotting Machine, with traversing head, 15in. stroke, 5ft. diameter table; all self-acting, adapted for slotting radial axle box frames and general locomotive work. Railway Wheel Lathe, for carriage and wagon wheels up to 3ft. 6in. diameter. Planing Machine, will plane 5ft. by 2ft. 6in. by 2ft. 6in., cross-slide, fitted with two self-acting tool boxes, table traversed by screw and direct pulleys; no gearing. Duplex Axle Brass Step Boring Machine, will bore four brasses at the same time; self-acting. Group of Surface Plates, 36in. by 36in., 24in. by 12in., 16in. by 16in., 15in. by 6in., 12in. by 3½in. Group of Fitters' Bench Vices, three sizes, 5in., 6in., and 7in. jaws.

484 Messrs. Crossley Brothers, Limited, Openshaw, Manchester; and 31, Market-street, Manchester.

Otto Domestic Motor. ½h.-p. Vertical Gas Engine, with Crompton dynamo combined. 1½h.-p. Vertical Otto Gas Engine, with Crompton dynamo combined. 4h.-p. Horizonal Otto Gas Engine, with Crompton dynamo combined. 5h.-p. Vertical Otto Gas Engine. 4h.-p. Otto Gas Engine, with Lightfoot's Patent Dry Air Refrigerator. 7h.-p. Otto Gas Engine, combined with force pumps. 14.h.-p. Otto Gas Engine. Switchboard, with automatic cut-off. Set of Accumulators. Electric Light Fittings, for private houses, factories, &c. Electric Light Meter.

484a Manchester Electric Supply Co., Limited, 31, Market-street, Manchester.

Electric Light Fittings, suitable for factory, house, and shop lighting purposes. Accumulators. Special Cut-outs. Sectional Switches and Measuring Instruments.

485 James McMurdo, New-street, Miles Platting, Manchester.

Repeating Machine, for Repeating Jacquard Pattern Cards. Machine for cutting Peg and Lace Holes in blank Jacquard Cards. Piano Machine, for cutting Jacquard Cards from the Design. 400's Double-lift Double Cylinder Jacquard Machine, for weaving cross borders.

486 Thos. C. Thompson, Britannia Mills, East-street, Lower Mosley-street, Manchester.

Paging and Numbering Machine, treble action. Paging and Perforating Machines. Stabbing and Cornering Machine. Patent Meteor Oil Tank. Patent Grooved Chase. Eylet Machine (self-feed).

487 Joseph Gillott & Sons, Victoria Works, Graham-street, Birmingham.

Seven of the most important processes of Steel Pen making, practically shown in operation, viz., cutting out, side-slitting, piercing, raising, marking, slitting, straight grinding, and cross grinding.

488 Asa Lees & Co., Limited, Soho Iron Works, Oldham.

Cotton Spinning and Preparing Machinery. Single Lap Machine for 40in. cards, with patent feed regulator and patent rope driving. Single Carding Engine 40in. on the wire, cylinder 50in. diameter, doffer 24in., taker-in 9in., covered with inserted metallic saw-tooth wire, 102 self-acting revolving flats. Drawing Frame, 1 head of 5 deliveries, 18⅜in. staff, 4 lines of rollers, loose boss top rollers to front line, case-hardened bottom rollers to front line, traverse motions, back and front stop motions, full-can stopping motion, and weight-relieving motion. Slubbing Frame, 34 spindles, $\frac{13}{16}$in. diameter, 4 spindles to 19in., 10in. lift, single centrifugal pressers, iron flats for stationary cloth, short collars, 3 rows of rollers, loose boss top rollers to front line, case-hardened bottom rollers to front line. Intermediate Frame, 52 spindles $\frac{13}{16}$in. diameter, 8 spindles to 25$\frac{5}{16}$in., 10in. lift, single centrifugal pressers, iron flats for stationary cloth, short collars, 3 rows of rollers, loose boss top rollers to front line case-hardened bottom rollers to front line. Roving Frame, 64 spindles, $\frac{11}{16}$in. diameter, 8 spindles to 20½in., 7in. lift, half the frame with single centrifugal pressers, and half the frame with double centrifugal pressers, iron flats for stationary cloth, short collars, 3 rows of rollers, loose boss top rollers to front line, case-hardened bottom rollers to front line. The Slubbing Intermediate and Roving Frames have Taylor's patent cone-releasing motions, and patent knocking-off motion attached. Twist Ring Spinning Frame, 96 spindles, 2¾in. gauge, 1⅝in. rings, 5in. lift, patent Gravity spindles, double tin rollers, thread board lifting motion, anti-balooning wire traveller clearers, inclined roller stands, rollers weighted with dead weights, loose boss top rollers to front line, case-hardened bottom rollers to front line, patent rope driving arrangement. Weft Ring Spinning Frame, 116 spindles 2¼in. gauge, 1¼in. rings, 4½in. lift, patent Gravity spindles, double tin rollers, thread board lifting motion, anti-balooning wire traveller clearers, inclined roller stands, rollers weighted with levers, case-hardened bottom rollers to front line. Patent Self-acting Mule, 252 spindles, 1⅜in. gauge, 17in. spindles, 1½in. back-shafts 1⅜in. faller shafts, creels for double roving, carriages boarded underneath, patent duplex driving, treble grooved rimband arrangement, patent strapping motion, improved backing-off cam and backing-off chain tightening motion, improved click locking motion, patent full cop stopping motion, self-acting nosing motion, taking in by band with patent tightening apparatus, twist motion, self-acting anti-snarling motion, self-acting strap-relieving motion, case-hardened bottom rollers to front line. Patent Self-acting Twiner, 270 spindles, 1½in. gauge, 17½in. spindles, improved brass locking slide, brass guides, zinc water troughs, taking-in by band, with patent tightening apparatus, patent full cop stopping motion, self-acting strap, relieving motion, improved backing-off cam and backing-off chain tightening motion. Cotton Waste Machinery: Breaker Carding Engine, 50in. on the wire, cylinder 50in. diameter, doffer 24in., taker-in 9in., covered with inserted metallic saw-tooth wire, rollers and clearers, lap drum in front 50in. diameter. Finisher Carding Engine, 50in. on the wire, cylinder 50in. diameter, doffer

24in., takerin 9in., covered with inserted metallic saw-tooth wire, rollers and clearers. Patent Condenser, with steel strip dividers for 60 ends. Patent Self-acting Mule for spinning cotton waste on the woollen system, 180 spindles, $1\frac{3}{4}$in. gauge, 18in. spindles, with back-shafts $1\frac{1}{2}$in. diameter, $1\frac{3}{8}$in. faller shafts, patent arrangement giving three speeds of spindles, drawback or jacking-in motion, motion for altering speed of spindles at any part of draw, patent strapping motion, improved click locking motion, improved holding-out catch, patent full cop stopping motion, carriage stop motion, spindle stop motion, taking-in by band, with patent tightening arrangement. Single Grinding Machine for rollers or clearers, with dust fan and cover, setting arrangement.

489 John Dugdale & Sons, Soho Foundry, Blackburn.

Winding Machine, arranged for cops, ring throstle, and hank yarns. Beam Warping Machine, with automatic stopping motion. Sizing Machine (Slasher system), with new improvements. Seamless Bag Loom, Laird and Rutherford's new improved system. Loom (old), with Haythornthwaite's new brake. Winding-on Motion, for roving and other frames, Dugdale and Davies' new system.

490 Richard Threlfall, Bridgeman Place Machine Works, Bolton.

Patent Self-Acting Mule, containing 408 spindles, $1\frac{1}{4}$in. space, fitted up with all our latest improvements, constructed for spinning fine cotton yarns.

491 Taylor, Lang, & Co., Limited, Castle Iron Works, Stalybridge, near Manchester.

Cotton Pulling Machine, to pull cotton direct from the bale. Buckley's Patent Opener, 40in., with patent automatic pedal feed regulator, making laps direct from the cylinder. Buckley's Patent Combined Opener and Scutcher, 40in. improved feed rollers, double weighted. Finisher Scutcher, for 40in. cards, with improved automatic pedal regulator. Self-Acting Mule, of 264 spindles, $1\frac{3}{8}$in. gauge, three threads, 17in. spindle.

491a The Rossendale Belting Co., 20, Rook-street, Manchester.

Hair and Cotton Duck Beltings. Hose-pipe. Belt Fasteners.

492 Henry Faulder & Co., 7 and 9, Lancashire Bridge, Stockport; factories, Heaton-lane and Vernon Bridge, Stockport.

Whole Fruit Preserves. Marmalade and Confectionery, also special apparatus and machinery producing the same.

492a The Credenda Cold-drawn Seamless Steel Tube Co., Ledsam-street, Birmingham.

Cold-drawn Seamless Steel Tubes, in various sizes, thicknesses, and sections.

493 W. & M. Marwick, 65, Nicolson-street, Edinburgh.

The Manufacture of Confectionery and Chocolate, in operation showing the different processes in Sugar Boiling. Comfit Making by Steam Pans. Lozenge Making. Chocolate Manufacture.

493A The Haslam Foundry and Engineering Co., Limited, Union Foundry, Derby.

A 3,000ft. Patent Dry Air Refrigerating Machine, with Steam Engine combined. The machine will deliver dry air at 40 degrees below zero Fahr.

494 James Proctor, Hammerton-street Iron Works, Burnley.

Mechanical Stoker, and Self-Cleaning Machine, moving or hand moving fire bars for supplying fuel to steam boilers mechanically.

495 Wilson & Ingham, Springfield Mill, Liversedge, Yorkshire.

Machine for making Card Clothing of hardened and tempered steel wire for revolving flat carding engines.

496 Thomas Coleby, 33, Lancaster Buildings, Barton Square, Manchester.

Patent Reel, adapted to reeling cotton yarn from cops. A similar machine for reeling from ring frame, tubes, and bobbins. Bundling Machines for making up cotton yarns.

497 Thomas Gare, Eclipse Works, Booth-street, Edgeley, Stockport.

Boot and Shoe Paring and Finishing Machine. Buffing and Sandpapering Machine. Carving Machine. Profiling Machine. Flexible Shafts, and various applications of same. Machine for cutting off cams, screws of irregular pitch, and also milling tools at any angle or pitch. Adjustable Self-Lubricating Bush. Improved Blowpipe. Angular Ball Castor. Hair Brushing Machine. Solution for resisting damp and rust.

498 Matthews and Yates, 35, Lever-street, Manchester.

Air Propeller. Apparatus for the propulsion, suction, and movement of air fluids and gases. Automatic Closing Doors. Humidifier for moistening atmosphere.

499 James Howorth, M.S.A., Victoria Engineering Works, Farnworth, near Bolton.

Archimedean Screw Ventilators, self-acting. Radial Screw Ventilators, self-acting. Radial Screw Ventilators, driven by motive power. Horizontal Screw Ventilators. Centrifugal Screw Ventilators,

fitted to and driven by the Morton-Hall Patent Steam Motor. Outlet Valves for preventing back draughts. Chimneybreast Outlet Ventilators. Draughtless Air Inlet Ventilators. Humidifier and Air Inlets. Heating and Cooling Chests combined with Lacy's Patent Humidifier Fan, &c. Samples of Dutry-Colson's Patent Fire Extincteurs.

500 JAMES ROBERTSHAW, Climax Works, Simpson-street, Rochdale-road, Manchester.

Patent Dyeing and Wringing Machine, for hanks of yarn. Sizing and Wringing Machine, for hanks of yarn.

501 EDWARD RENSHAW & Co., 19, Corporation-street, Manchester.

Exhaust Fan, and Exhaust Fan with Engine attached.

502 THE ANTI-FRICTION CONVEYOR Co., 59, Mark-lane, London, E.C.

Conveyor. Disintegrator; the grinding surfaces are of chilled iron.

503 WILLIAM SAMUEL SNEADE, Charters-street, Vauxhall-road, Liverpool.

Improved Patent Rolls and Machinery in motion for the production of chocolate, cocoa, paint, &c.

504 FOLLOWS & BATE, LIMITED, Froxmer-street, Gorton, Manchester.

Granite Roller Mill, with 3 rollers, 24in. by 14in. Iron Cone Mills for Paint Manufacturers, 20in. grinding surfaces, capacity of hopper, 12 gallons. Edge Runner Mill, 4ft. 6in. pan, rollers 30in. by 8in. Drug Grinding Mill, on high stand, with fast and loose pulleys. Pug Mill, for mixing dry colours and oil. Inclined Power Press, for stamping sheet metals. Automatic Perforating Machine.

505 JULIUS SCHLESINGER, 59, Mark-lane, London, E.C.

Dust Collector, for removing dust in mills and factories. Wheat Cleaner, Brush Scourer, and Smutter.

506 BLACKMAN AIR PROPELLER VENTILATING Co., LIMITED, 63, Fore-street, London, E.C.

Blackburn Air Propeller, 48in. diameter, in motion, fitted with automatic shutters. Blackman Air Propeller, 36in. diameter, fixed, with spindle vertical, for drying wool. Blackman Air Propeller, 24in.

diameter, fixed for removing dust, which the chaff in motion represents. Wool Drying Table.

507 HULME AND LUND, Steam and Hydraulic Engineers, Egerton-street Iron Works, Chester-road, Manchester, S.W.

Patent Direct-Acting Steam Pumping Engine for low lifts. Direct-Acting Steam Pump for Boiler-feeding. Hydraulic Pump for Dip Working in Mines, &c. Donkey Pumping Engine for Boiler-feeding, double-acting, with one ram. Donkey Wall Pump, 2in. ram. Donkey Wall Pump, 1in. ram.

508 CLARK, BUNNETT & Co., LIMITED, Ducie Chambers, Market-street, Manchester; and Rathbone Place, London.

Self-sustaining Hand Power Luggage Lift. Self-sustaining Dinner Lift. Self-gripping Crab. Hydraulic Passenger Lift. Castings in Iron and Bronze. Revolving Shutters.

509 HODGKINSON & Co., LIMITED, Ordsall Machine Works, Woden-street, Manchester.

Mechanical Stoker. Self-cleaning Fire Bars. Rocking Bars, for hand or machine firing. Oscillating Gas Engine.

510 HINDE & SON, Metropolitan Brush Works, Oxford-street, and Coventry-street, Birmingham; and 54, Rue Greneta, Paris.

The Process of Manufacture of Toilet Requisites and Brushes from the Raw Materials to the articles ready for use.

510A WESTRAY, COPELAND, & Co., Abbey-road, Barrow-in-Furness.

High-Pressure Compound Engine, with cylinders, 4in. and 8in. diameter, by 12in. stroke, fitted with Kirkaldy's Compactum Feed-water Heater.

511 BRATBY AND HINCHLIFFE, Sandford-street, Ancoats, Manchester; and 146, Minories, London, E.C.

Complete Plants for the Manufacture of Aerated Waters, to be shown in full operation. Bottle Washing Machine. Wiring Machine. Turnover Filling Machine. Cork Bottling Machine. Syrup Making Apparatus Syphon Bottles and Filling Machines. Beer and Wine Bottling Machinery. Essential Oils. Soluble Essences. Fruit Syrups and Cordials. Patent and Cork Bottles. Partitioned Boxes and Cases. Labels. Showcards. Corks. Capsules. Lead and Tin Foil. Bottling Wire. Bottle and Box Brushes. Capsuling Machines.

511A T. W. Lawson, Napoleon Works, 260 and 262, Rochdale-road, Manchester.

Mineral and Aerated Waters. A Non-intoxicating Beverage known by the name of Nap.

512 Dan Rylands, Blake-street, Stretford-road, Manchester; and Hope Glass Works, Barnsley.

Ryland's Patent Aerated Water Machines and Anti-atmospheric Carbonic Acid Gas Generators, in action. Turnover Filling Machines. Multiple Filling Machine for Power. Bottle-washing Apparatus. Model Syrup Making Plant. Rylands's Patent Globe Stoppered, Valve, and Cork Stoppered Aerated Water Bottles. Rylands's Patent Wire-bound Boxes and Cases for Aerated Water Bottles.

513 Thomas Parkinson, Britannia Works, Blackburn.

Hydraulic Cloth Bundling Press. 4h.-p. Steam Engine. Size Mixing Machinery and Fittings. Brass and Iron Pumps. General Copperwork. Engineers and General Brasswork.

514 Lewis Sanderson (the Railway and Electric Appliances Co., Limited), Rosehill Works, Polmadie, Glasgow.

New Rotary Engine.

515 The Steel Nut and Tube Co., High Bank Steel Works, Openshaw, Manchester.

Nuts. Rigging Screws. Railway Union Boxes. Steering Gear Unions. Adjusting Boxes for Roofs and Bridges. Signal and Telegraph Stay Adjusting Boxes. Tubes, solid drawn. Hollow Crank Shafts. Crank Pins. Piston Rods. Governor Spindles. Saddle Screws. Fast and Loose Head Lathe Spindles. Connecting Rods. Boring Bars. Boring Rods for mining purposes. Hydraulic Tubes, with bends and connections. Dredger Bushes. Hollow Taps. Hexagon and Round Solid Bars.

516 Bentley and Jackson, Lodge Bank Works, Bury, near Manchester.

Rotary Cloth Stretching Machine for cotton goods. Belt Pulley of variable diameter. Brass Centrifugal Pump, 15in. diameter. Chilled Iron Calender Roll, 14in. diameter, ground and finished. Paper Bowl, 24in. diameter, made of Craig's woollen paper. Wood Fibre Bowl, 20in. diameter. Sample Rolls of Raw Cotton, Cop Bottoms, White Linen, and Brown Papers. Verny Paper Cutting Machine, to cut a web of paper 60in. wide, the paper being held stationary whilst being cut. Brass Ejectors for vacuum boxes of paper-making machines. Patent Automatic Wire Guide for regulating the wires of a paper-making machine. Sundry Steam Valves. Roll of Paper.

517 JOHN WOLSTENHOLME, Albert Works, Radcliffe, near Manchester.

The Radcliffe Gas Engine, 2h.-p. nominal. Duplex Steam Pumping Engine, 6in. water cylinders, 10in. steam cylinder, 12in. stroke. Gun-metal and other Fittings.

518 BROWETT, LINDLEY, & Co., Sandon Engine Works, Salford, Manchester.

Set of Lindley's Patent Driving Gear, combined with Vertical Engine and Dynamo. Vertical Compound Tandem Engine. 4h.-p. Horizontal Engine. Patent Sandon Gas Engine. Set of Lindley's Patent Acme Governors.

519 FRANK PEARN & Co., Engineers, West Gorton, Manchester.

Patent Quadruple-acting Pump, with two rams each 10in. diam., two steam cylinders each 12in. diam., stroke 9in. Double-acting Pump, with one ram 6in. diam., one steam cylinder 10in. diam., stroke 8in. Long Stroke Double Ram Manchester Pumping Engine, rams 4in. diam., steam cylinders 6½in., stroke 8in. Long Stroke Quadruple-acting Manchester Air Compressor or Vacuum Pump, with two air cylinders 8in. diam., two steam cylinders 8in. diam., stroke 12in. Single-acting Manchester Donkey or Wall Pumps, rams ⅝in. diam., steam cylinders 1¾in. diam., stroke 1in. Single-acting Manchester Donkey or Wall Pumps, rams 2in. diam., steam cylinders 4in. diam., stroke 4in. Double-acting Manchester Donkey or Wall Pumps, pumps 2in. diam., steam cylinders 4in. diam., stroke 4in.

520 W. H. BAILEY & Co., Albion Works, Salford, Manchester.

Bailey's Patent Direct-acting Hydraulic Lift. This lift is actuated by the pressure of the water in the town's mains, the exhaust water being afterwards used for feeding the boilers of the Exhibition.

521 EDWARD GREEN & SON, 14, St. Ann's Square, Manchester; works, Wakefield.

Green's Patent Fuel Economisers, fitted with dentilated scrapers and access pipes, various sizes. Fuel Economiser for single boilers, with cold-drawn seamless steel tubes. Specimen Castings of parts of Economiser, all pipes being cast vertically in dry-sand moulds. Fuel Economiser of 192 heating pipes, in operation to the working boilers.

522 J. H. RILEY & Co., Elton Iron Works, Bury, near Manchester.

Beetle Roller, 14ft., with friction cone and gearing, 11in. lift of fallers. Calender, Four-bowl Universal, for cotton and linen goods, driven by Hunter's patent clutch. Stretching Machine, 45in., for

cotton and linen goods. Doubling or Rigging Machine for cotton, linen, or woollen goods. Velvet Folding Machine, for warehouse use, driven by hand. Steam Drying Cylinders (three), with framing and Riley's patent vacuum valve motion, to prevent collapse of cylinders. Starch Mangle, frame sides, two sizes. Diagonal Steam Engine, 7in. by 10in., useful for driving separate machines. Small Oscillating Steam Engine, 5in. cylinder. Hunter's Patent Clutches, various sizes.

523 NASMYTH, WILSON & Co., LIMITED, Bridgewater Foundry, Patricroft, near Manchester.

Overhanging Steam Hammer, 10cwt., fitted with self-acting motion. Overhanging Steam Hammer, 3cwt., fitted with self-acting motion.

525 SAMUEL CHATWOOD, Lancashire Safe and Lock Works, Bolton.

Working Model of Chatwood's Patent Hydraulic Balance applied to (1) Banker's Strong Room, (2) Passenger Elevator, (3) Jeweller's Window. Model of Banker's Strong Room. Model of Elevator. Model of Rising and Falling Window. Various Working Models of Hydraulic Balance.

526 WORTHINGTON PUMPING ENGINE Co., 114, Queen Victoria-street, London, E.C.

Worthington Compound Steam Pump. Worthington Low Service Steam Pump. Worthington Boiler Feed Pumps of different sizes. Worthington Water Meters.

528 MARGARET CLEGG, King-street Leather and Roller Covering Works, 2, King-street, Oldham.

Specimens of various kinds of Covered Rollers, Clearers, Flats, &c., used in the various kinds of machinery for spinning cotton and silk threads or yarns. A variety of Welsh Roller Skins, Roller Cloth, Clearer Cloth, Jointed Hots, &c., used for covering the above rollers.

529 WILSON & Co., Beevor Works, Barnsley, Yorkshire; and 15, Market-street, Manchester.

Samples of Bobbins, Tubes, Spools, Pirns, &c., with patented appliances for strengthening the same.

530 ROBERT HYDE & Co., Spring Grove Mills, near Stalybridge.

Roller Cloth, Clearer Cloth, Sizing Flannel, Scarlet Saxony Flannel, White Saxony Flannel, Cricketing Flannel.

531 F. A. FITTON & SON, Beehive Spindle Works, Bengal-street, Manchester.

Spindles and Flyers.

532 Baron & Hogarth, Leece Croft Mills, Kendal.

Reeds, Healds, Wire Healds, Cotton and Worsted Heald Yarns, Mails, &c.

533 Mitchell & Co., Limited, Bolton-street, Bury.

Rollers, Spindles, and Flyers.

534 James Wilde & Son, The Steam Brush Factory, Southgate-street, Oldham.

Brushes for various purposes.

535 William Kenyon & Sons, Chapel Field Ropery, Dukinfield, Cheshire.

Banding used in the Spinning of Cotton, Worsted, Silk, and other Fibres. Crane, Hoist, Block, and Driving Ropes, Fishing Cords, &c.

536 John Swailes & Sons, Oldham Cop Tube Works, Moorhey, Oldham.

Paper and other Tubes used in Textile Manufacture, and Patent Apparatus for placing them in the Spindles of all kinds of Spinning and Doubling Machinery.

537 John Dixon & Sons, Steeton, *via* Leeds.

Bobbins and Tubes.

538 Joshua Kershaw & Son, Union Leather Works, Bolton.

Roller Leather for various classes of Cotton Spinning. Specimens of Covered Rollers used for spinning fine counts.

539 Waddington and Ramsbottom, Nicholas Croft, High-street, Manchester.

Paper for various purposes. Tubes (Paper), Conical and other descriptions for Spinning.

540 Buckley and Crossley, Tame Valley Spindle and Flyer Works, Dukinfield.

Mule, Throstle, and Roving Spindles and Flyers. Loose Boss Rollers, &c.

541 James Lumb, Perseverance Brass and Steel Works, Elland, Yorks.

Steam Engine Lubricators. Steam Engine Regulator. Steam Engine Stop Motion. Steam Engine Momentum Governor. Fire Brigade Appliances. Boiler Mountings. Compound Safety Valves. Gun Metal Steam Fittings. Steam and Vacuum Gauges. Crucible Steel Castings.

542 JOHN WHITELEY & SONS, Brunswick Mills, Halifax, Yorkshire.

Card Clothing. Card Cloth. Mild Steel and Hardened and Tempered Steel Wire.

543 WILSON BROTHERS, Corn Holme Mills, Todmorden; 14, Market Place, Manchester.

Bobbins, Tubes, and Spools.

544 SIDNEY MOORHOUSE & Co., Victoria Works, Stalybridge; and 5, Todd-street, Manchester.

Asbestos Steam and Water Valves. Asbestos Water Gauges and Blow-off Cocks. Improved Sight Feed Lubricators. Marine Spring Safety Dead-weight and other Valves. Pressure, Vacuum, and Hydraulic Gauges. Steam Engine Indicators. Steam Kettles. Steam Ovens.

545 JOHN CALVERT & SONS, Great Jackson-street, Manchester.

Steel Rules, Standards, Measures, Gauges, and Tools for Engineers.

546 E. GRIFFITHS HUGHES, Victoria and Cateaton Streets, Manchester; and Gravel-lane, Salford.

Hughes's Fir Tree Oil Spray Pumps. Aphicides. Fir Tree Oil Insecticide for destroying insects on trees, plants, and animals. Green and Cream Shading for glass houses. Hughes's Floral Cement for fixing the bloom of pelargoniums, &c., and the petals of cut bloom. Hughes's Styptic for preventing bleeding in vines after pruning.

547 BUTTERWORTH BROS., LIMITED, Newton Heath, Manchester.

Gauge Glasses and Lubricators. Spirit Level Tubes, and Glass Articles for cotton, woollen, and silk machinery. Water Gauges. Brass Fittings for Lubricators and Machinery.

548 F. LEROY & Co., Gordon-street, Great Clowes-street, Lower Broughton, Manchester.

Sundry Pipes, &c., covered with non-conducting composition, showing mode of application.

549 FRICTIONLESS ENGINE PACKING Co., 27, Exchange Buildings, St. Mary's Gate, Manchester.

Engine Packing.

550 JOHN WILKES, MAPPLEBECK, & Co., Patent Brass Tube Works, Abberley-street, Birmingham.

Solid-drawn Brass and Copper Tubes, for locomotive and marine boilers; Surface Condensers, &c.

551 R. Boehm & Co., 39, Bridge-street, Manchester.

Steam Gauges, Vacuum Gauges, Compound Gauges, Steel Tube Gauges, Hydraulic Gauges, Test Gauges. Engine Counters for revolutions and strokes. Engine Counters with quarter motion, for turnstiles. Pyrometers, Boiler Test Pumps, Steam Dryers or Water Separators, Parker's Patent Steam Traps, Injectors for feeding boilers, High Speed Engine Governors, Cast-iron Valves, Filter Presses, Low Water Alarms, Engine and Boiler Fittings, Patent Elastic Wire Belting, Steam Traps with expansion apparatus.

552 Fairburn and Hall, 63, Royal Exchange, Manchester.

Hall's Patent Automatic Injectors for supplying steam boilers with water. Jetometer, or Steam Jet Pumps, for raising large or small quantities of water. Exhaust Steam Condensers, Vacuum Ejectors, Syphon Pumps, and other steam jet specialities.

553 Squire Farron, Britannia Brass Works, Ashton-under Lyne.

Reducing Valves, Sight Lubricators, Steam Traps, Steam Taps and Valves, Tallow Cups and Lubricators, Water Gauges, Mud Taps for boilers, &c.

554 Wm. Barningham & Co., Limited, Pendleton Iron Works, Manchester.

Samples of Rolled Girders. Compound Iron Beams. Railway and Tramway Plant. Specimens of Rails, Iron and Steel Bars, Angles, Tees, &c.

555 Holden and Brooke, St. Simon's Works, St. Simon-street, Salford.

Exhaust Steam Injectors. Influx Automatic Injectors. Giffard Injectors. Injector and Boiler Fittings, &c. Low Water Alarms Safety Gauge Glasses.

556 W. Willson Cobbett, 82, Southwark-street, London, S.E

Scandinavia Patent Cotton Machine Belting. Toughened Hair Belting. Frictionless Belt Guides, in porcelain. Belt Stretcher.

557 John Ashton & Son, 36, Withy Grove, Manchester.

Examples of various kinds of Leather, in hides, butts, or skins. Leather Belting of different widths. Leather Laces. Leather and Buffalo Pickers for weaving. Leather Fire Hose. Leather Fire Buckets. Prepared Buffalo Leather for Cotton Ginning. Prepared Sea Horse or Walrus for Glazing. Leather Plate Carrier, for hotels and restaurants. Hydraulic Press Leathers. Buffalo Skips.

558 Sampson & Co., 43, Haworth's Buildings, Cross-street, Manchester; manufactory, Stroud, Gloucestershire.

Main Leather Driving Belts, made from the best English leather. Single and Double Leather Belting, sewn with hemp laces or copper wire. Endless Single Belts. Section of the largest belt in the world; width, 75in.; length, 153ft., of double thickness.

559 Turner Brothers; works, Spotland, Rochdale.

Asbestos in the crude state. Prepared Fibre, Yarn, Cordage, and Cloth. Packings in variety for locomotive, stationary and marine engines. Jointing Material in various forms for steam and hydraulic purposes. Compound Cement for steam and water joints. Non-conducting Composition for covering boilers and steam-pipes. Ground asbestos. Miscellaneous Packings for locomotive, stationary, and marine engines; also for pumps. Elastic Tubular Cotton Ring Packings for stuffing-boxes. Elastic Metallic Washers for pipe joints. The Gripwell Solid Woven Hair Belting, for main-driving and general purposes. Woven Seamless Hose for fire brigades. The Gripwell Belting Syrup.

560 The Gandy Belt Manufacturing Co., Limited, 5, Ansdell-street, Liverpool.

Cotton Belting.

561 John Tullis & Son, St. Ann's Leather Works, John-street, Bridgeton, Glasgow.

Orange Tan Leather Beltings, flat and chain. Oak Tanned Leather Beltings, flat and chain. Special Oxidised Waterproof Cotton Belting. V-shaped Hide Rope; also V-shaped Wooden Rope, with friction leather outside; and Solid Square Leather Rope, of oak and patent orange tan leather, for main driving. Chain Belting arched to suit curve of pulley. Chain Belting, thick and thin sided, for half-twist drives. Llama Hair Belting, for outside and other special work. Hose Piping, for brigade and other purposes. Leather Fire Buckets. Leather Laces. Pump Butts. Leather and Buffalo Pickers. Buffalo Skips, and general mechanical leathers.

562 Wm. Laycock & Sons, Queen-street Leather Works, Keighley.

Main Driving Belts. Single Leather Belting. Link Leather Belting. Pliable Leather Belting. Machinery Leather, various kinds.

563 John Ormerod & Sons, Globe Leather Works, Castleton, near Manchester.

Screwed Double Leather Main Driving Belts. Single Leather Belting, cemented and sewn. Single Leather Belting, cemented only specially for mule driving straps. Welsh Roller Skins, suitable for spinning all counts. Goat Roller Skins, suitable for spinning very fine counts. English Roller Skins, suitable for spinning medium and coarse counts. Covered Rollers, for spinning all counts.

564 Richard Johnson & Nephew, Bradford Iron Works, Manchester, and Alderwasley Wire Mills, near Derby.

Wire Trophy, showing the raw material to the finished article, consisting of ingots, blooms, rods, drawn fencing, bright, coppered, tinned, Homo rope, patent improved steel, plough steel, galvanised telegraph and telephone wires, galvanised steel barb wire, and galvanised strand wire.

565 The Whitecross Co., Limited, Warrington.

Pyramid of Wire of all kinds, showing process of manufacture from pig iron, blooms, and billets. Coils of Telegraph and Telephone Wire. Pyramids of Wire-rope for Rigging. Running and Standing Tramway ropes. Colliery and Pit Ropes. Hauling and Towing Ropes. Winch and Stopper. Wire Netting of various sizes. Wire Nails and Staples. Small Model of Rope-making Machine.

566 Andrew and James Stewart, Limited, Clyde Tube Works, Coatbridge, and 41, Oswald-street, Glasgow.

Lapwelded Iron and Steel Tubes, for all descriptions of boilers. Iron and Steel Boiler Tubes with copper ends. Iron and Steel Tubes for Rollers, Shafting, &c. Tubes for Gas, Steam, and Water, black, galvanised, and asphalted. Fittings of all kinds. Tubes with various flanged joints, for high and low pressures of air and water. Hydraulic Tubes. Hot Water Heating Tubes. Artesian Well and Mineral Boring Tubes. Oil Well Tubing and Casing. Oil Line Pipes. Blast Furnace Tuyere Coils, and Coils of various descriptions. Covebars. Bedstead Tubes. Rigging Screws. Point-rods. Handrail Tubes. Cast Iron Pipes and Fittings.

567 Power Pulley Co., Limited, Charles-street, Princess-street, Old Garratt, Manchester.

Perforated Power Pulley (Shepherd's Patent).

568 W. and B. Cowan, Dutton-street Works, Manchester; Smith Square Works, Westminster, London; and Buccleuch-street Works, Edinburgh.

3-Light Wet Gas Meter with William Cowan's Patent Syphon Overflow, and Warner and Cowan's Patent Drum in Glass, showing all parts in action. 3-Light Dry Gas Meter, with glass sides, showing all parts in action. Automatic Pressure Changer. Photographic Pressure Register. Electric Recorder for station meter indexes—Mann's patent. Case of Gas Pressure Gauges. Brass Main Cocks and Taps. Models of Patent Governors. Syphon Liquid Meter.

569 Charles Cammell & Co., Cyclops Steel and Iron Works, Sheffield.

Tool Steel. Files. Steel Castings, Bearing Springs. Volute, Conical, and Spiral Springs. Armour Bolts. Buffers, Springs, Files, and other light articles.

570 G. Birch, & Co., Bloom-street Tool Works, Salford, Manchester.

Self-acting Slide-surfacing and Screw-cutting Foot Lathe, fitted with various appliances for plain and ornamental turning. Foot Power Milling Machine. Hollow Mandrel Electrician's Lathe. Amateur's Work Bench. Case of Small Tools, and Case of Specimens of Ornamental Turning.

571 Frederick W. Scott, Atlas Patent Steel Wire Rope Works, Reddish, near Stockport.

Steel and Iron Wire Ropes for mining and mechanical purposes; also Steel Wire.

572 William Rose & Co., Grosvenor Chambers, Manchester.

Manual Brigade Engines, metropolitan pattern. Hose and Implement Van, mounted on 5ft. wheels. Hand Curricle Engine, constructed to carry hose and appliances beyond what is required to work the engine. Horse Hose Cart, to carry fire appliances. Double and Single Corridor Fire Engines. Hand Hose Reel, constructed to carry 200 yards of hose, mounted on high wooden wheels, and fitted with implement box on top. Gun Metal Landing Valves, with patent outlet. Self Locking Fire Hose Couplings. Hand Fire Pump. The London Hand Pump. Standpipes, single and double delivery, for attaching to ground hydrants. Copper Branch or Delivery Pipes. Patent Dividing Breeching Piece, for working two jets. Telescopic Scaling Ladders, fitted with gun metal clips. Telescopic Fire Escape, fitted with continuous brass handrails. Chemical Fire Extinguisher, made entirely of wrought copper and brass.

573 Picksley, Sims, & Co., Limited, Bedford Foundry, Leigh, Lancashire.

6h.-p. Portable Steam Engine, with 8½in. diam. and 12in. stroke, steam-jacketed cylinder, variable expansion, eccentric, high-speed Porter governors. 3-h.p. Vertical Steam Engine and Boiler combined, on metal base plate, cylinder 5½in. diameter, 8in. stroke. A Grass Mower, Perfection, for two horses, 4ft. 3in. right hand bar, enclosed malleable iron gearing. Chaff-cutter, No. 4x, rising mouth, 9¼in. wide, stop and reverse motions, and clutch gear for altering the length of cut. Corn Crusher, No. 4, fitted with safety springs to allow hard substances to pass without injury to the crushing surfaces. Turnip Pulper and Slicer combined, DX, with large hopper for both operations. Small assortment of Kitchen Ranges.

574 Horsfall and Bickham, Bridgewater Works, Pendleton, Manchester.

Samples of Wire Card Clothing. Hardened and Tempered Steel and Mild Steel Wire; round, flat, combined flat and round, double-convex, angle-pointed, and surface-ground. Combined flat and round angle-pointed, hardened, and tempered Steel Wire, set in natural

indiarubber, woollen cloth, cotton cloth, and leather foundations. Samples of Foundations for Cards and of Pure Para Rubber, used in the manufacture of the same, viz., natural india rubber, vulcanised india-rubber, woollen cloth, cotton cloth, and cotton and felt cloths. Patent Slow Traversing Card Grinder, with automatic traversing motion. Models of Kennedy's Patent Ladder-couplers, with model ladders.

575 W. H. Bailey & Co., Albion Works, Salford.

Patent Watchman's Peg Block. Speed Indicators. Pressure Recorder for steam. Patent Water Works Recorder. Gas Pressure Indicator. Rotary Piston Water Meter (Pitt's patent). Sugden's Patent Plunger Displacement Lubricator. Sandringham Hand Fire Pump, suitable for the landings of private residences, hotels, works, and warehouses. Bailey's Patent Wire Tester, Government pattern. In testing wire by this machine the tensile strength is indicated by means of the dead weight of a column of mercury, which remains fixed in position when the specimen is broken; the column of mercury is slowly permitted to go back to zero, when a small back-pressure valve is lifted from its seat. Some important improvements have been made in this instrument at the suggestion of Professor Unwin. Cement Tester. Ingram and Stapfer's Patent Oil Tester. Professor Thurston's Patent Torsional Autographic Material of Construction Tester. Bailey's Patent Yarn Tester. Thurston's Patent Oil Tester, railway pattern. An Assortment of Testers for materials of construction. An Assortment of Sight-feed Lubricators for steam engine cylinders and steam hammers, Bailey's patent and others. Baird's Patent Sight-feed Lubricators. Baird's Patent Sight Drop Oilers for heavy bearings, &c. An Assortment of Brass Fittings for locomotives, including Threlfall's Patent Slide-bar Lubricators and Oilers. An Assortment of Bailey's Test Pumps for locomotive, marine, and other boilers. Ashcroft's Patent Low-water Alarms, and other Apparatus for indicating danger in boilers. An Assortment of Bailey's Patent Copper Cap Fusible Plugs for preventing danger to boilers through low water. An Assortment of Platt's and Wood's Patent Fusible Plugs. Bailey's Patent Scavenger Water Gauge Cocks for boilers. An Assortment of Marine Engine and Boiler Fittings. An Assortment of Boiler Fittings for steam tugs and launches. Greenhalgh's Patent Reducing Valves. Locke's Patent Reducing Valves. Aitken's Patent Runaway Valves for steam engines and pumps. This valve can be set to stop the engine when it exceeds any given number of revolutions in case of break-downs, blowing out of a pipe joint, defect in the governors, breakage of a pipe, or any other accident. One may be seen at work on the Stationary Fire Engine. Model of the Exhibition Chimney, fitted with Bailey's Tape Lightning Conductor. Model of Copper Ball on the central dome of the Exhibition, fitted with Bailey's Lightning Conductor. Model of a Powder Magazine Lightning Conductor, as supplied for the Government powder

magazines. An Assortment of Steam Cocks, Valves, Injectors, Steam Gauges, Pyrometers, Lubricators, and Oil Syphons. Holt's Patent Cylinder Drain Valve. Bailey's Patent Steam Trap. Kullig's Patent Steam Trap. McCracken's Patent Steam Trap. An Assortment of Grether's Patent Grip Lock Unions for hose pipes. An Assortment of Patent Apparatus for Engine and Boiler Fittings, which will be fully described in the next edition of the Catalogue. Bailey and Duncan's Patent Bell Punch for checking tickets.

576 Burys & Co., Limited, Regent and Philadelphia Works, Sheffield.

Steel in various sections, Files and Rasps, Edge Tools, Carving and Sculptors' tools, Machine Knives, Chaff Knives, Reapers' Knives, Engineers' Tools, Hammers, Saws, Patent Picks for road and railway work, stone getting, and coal mining; Rolled Steel Beater Plates for thrashing machines, Scythes, Strickles, Hay and Straw Knives, Reaping Hooks, Plough Plates, Sheep Shears, and general agricultural tools.

577 William Günther, Central Works, Oldham.

Girard Turbine, with vertical shaft for a fall of 22ft. and 90h.-p. Turbine with horizontal shaft for a fall of 104ft. and 102h.-p. Turbine for a fall of 200ft., coupled with a 40-light dynamo. Suction Turbine, with horizontal shaft, and regulation for a fall of 50ft. and 27 h.-p. Turbine Governor. 30in. Blowing Fan. 12in. Blowing Fan. 17½in. Exhaust and Blowing Fan. 4in. Centrifugal Pump. 2in. Centrifugal Pump.

577a London and County Photographic Co., 63, St Paul's Churchyard, London.

Photographs of Machinery in Motion and Views of Old Manchester.

577b John Heywood, Deansgate and Ridgefield, Manchester.

Official Catalogue and Guides.

578 Robert Watkinson, Gore-street Brass and Copper Works, New Bailey-street, Salford, Manchester.

General Fire Extinguishing Appliances. Instantaneous Hose Unions. Standpipes. Landing Valves. Branchpipes. Hose Ferrule for attaching unions to hose in place of wire wrapping. Chemical Extincteurs. Canvas Hose Pipes. Leather Hose Pipes. Rubber Lined Hose Pipes, &c.

579 Andrew Handyside & Co., Limited, Britannia Ironworks, Derby.

Ornamental Vases.

580 Geo. Thomas & Co., 28, Deansgate, Manchester.

Double-geared Universal Milling Machine, with three-speed cone, making six changes of speed. Spindle will carry arbor projecting 20in. The spiral bed can be set at angles of 35° each way, from centre line of spindle, and fed automatically 16in., taking also 16in. between centres, and will swing 11in. Horizontal movement of spiral clamp bed $6\frac{3}{16}$in., and the vertical movement below spindle centres is 10in. Fitted up complete.

581 Hamilton Woods & Co., Liver Foundry, Salford, Manchester.

Feed Water Heater. Street Standpost, with outlets, screwed to brigade gauge, complete with sluice valve and frost valve combined. Valve Hydrant. Screw Hydrant. Landing Hydrant, with gun metal outlet, screwed to brigade gauge. Ball Hydrant. Sluice Valve, with spigot and socket ends.

582 Walter T. Glover & Co., Salford, Manchester; and 10, Hatton Garden, London, E. C.

Electric Lighting: Examples of Wire and Cable variously insulated for general electric lighting purposes. Concentric Cables for electric lighting on board ship and for use with secondary generators or transformers. Multiple Cables, for secondary generators or transformers. Non-inflammable and other Flexible Cords for electric lamps. Examples of Joints for Electric Light Cables. Examples of the whole of the Wire and Cable used in the Fine Arts and Old Manchester and Salford Sections of the present Exhibition. Examples of the Wire and Cable used in private house installations, supplied for the Jubilee House in the Botanical Gardens. Telephonic example case of Submarine Telegraph Cables. Examples of Overhead and Underground Cables. Old Telegraph Pole, showing insulators, shackles, &c., from an early date. Telegraph Wire, insulated and bare, as now used. Patent Telephone Cables, for preventing induction, also examples of the progress made in the manufacture of anti-induction telephone cables. Telephone Wire of all classes. Patent Wire Gauge, gives five direct readings on every wire measured, viz., legal number, diameter in inch, diameter in millimetre, square inch area, and carrying capacity in ampères.

583 Pearson & Bennion, Union Works, Blue Boar-lane, Leicester.

Eccentric Sole Cutting Presses. Acme Lift Cutter. Acme Embossing Machine. Pair of 25in. Leather Rollers. Bench Embossing Machine. Self-feeding Eyeletting Machine. Eyelet Machine. Punching Machine. Link Cutting Machine for Leather Belting. Wax Thread Sewing Machines. Mill Band Sewing Machine. Cotton Belt Sewing Machine. Beading Machine. Assorted Sample or Model Lasts. Assorted Knives.

584 Henry Pooley & Son, Albion Foundry, Liverpool; and Fennel-street, Manchester.

Single Hopper Grain Weigher. Elevator, driven by an Otto gas engine. Self-indicating Pit Bank and other Weighing Machines. Models of Ancient and Modern Weighbridges. New Printing Steelyard. Examples of Weighing Apparatus without loose weights. Various Designs and Patterns of Weighing Machines.

585 David Hart & Co., North London Iron Works, Wenlock-road, City-road, London, N.

Self-indicating Weighing Machines, without loose weights, for fixing in the ground or floor. Portable Weighing Machines. Platform Weighing Machines. Butchers' Weighing Machines.

586 Edward Wood, Red Bank Works, Manchester.

Assortment of Ventilating Apparatus, suitable for all purposes.

587 Thomas and John Taylor, 31 and 33, Manchester-street, Oldham; 31, South Corridor, Royal Exchange, Manchester.

Examples of Crucible Steel Castings. Samples of Files, Saws, and Edge Tools. Chimneypieces in Statuary, St. Ann's, Black and Rouge Marbles. Tiled Register Grates. Hand-painted Tile Hearths and Panels. Fenders in brass, and brass and black and tiles. Fire Brasses. Fireiron Rests. Fire Screens. Kitchen Ranges. Gas Chandeliers. Hall Lamps and Brackets. Oil Chandeliers. Hall Lamps, Brackets, and Table Lamps.

588 Newton, Chambers & Co., Limited, Thorncliffe Iron Works, near Sheffield; and Grosvenor Buildings, Deansgate, Manchester.

Thorncliffe Patent Cooking Range. Yorkshire Improved Cooking Range. Leamington Improved Cooking Range. Grill Stove. Steam Cooking Apparatus. Ornamental Heating Apparatus. Stable Fittings. Garden Rollers. Lamp Posts. Palisading. Staircase Banisters. Gutters, Pipes, &c. Miscellaneous Collection of Iron Goods. Oak Chimneypiece, with overmantel. Set of Marble Slips for ditto. Brass and Real Bronze Register Grate. Tile Hearth for ditto. Polished Brass Kerb with Real Bronze Figures. Set Fire Brasses to match. Pair Brass Dogs for ditto. Brass Stop for ditto. Rosewood Chimneypiece, with overmantel. Set Marble Slips for ditto. Polished Brass Register Grate for ditto, with hand-painted tiled sides. Tile Hearth to match. Polished Brass Kerb to match. Set Fire Brasses to match. Pair Polished Brass Dogs to match. Polished Brass Stop to match. Decorated Iron Chimney piece, with overmantel. Black and Brass Tiled Register Grate Tile Hearth to match. Electro-bronzed Kerb to match. Set Fire Brasses to match. Pair Polished Brass Dogs. Polished Brass Stop. Chimneypiece, in brown brocatilla, green and black marble. Black

and Brass Register Grate to match. Tile Hearth to match. Black and Brass Curb to match. Set Polished Brass Fire Brasses to match. Pair Polished Brass Dogs. Polished Brass Stop. Numidian Red and Black Marble Chimneypiece. Polished Brass Register Grate to match. Tile Hearth to match. Polished Brass Kerb to match. Set Polished Brass Fire Brasses to match. Pair Polished Brass Dogs to match. Polished Brass Stop. An assortment of Fire Brasses, Dogs, Wood Coal Vases, &c.

589 JOHN PORT, Mill-street, Ancoats, Manchester.

Burglar and Fireproof Safes, with double and single doors.

590 CHARLES WALMSLEY, Atlas Iron Works, Bury.

Single-throw Challenge Fire Pump, with 10in. bucket and 14in. steam cylinder. Paper Makers' Stuff and Water Pump—stuff pump, 8in. bore; water pump, 10in. bore, 15in. stroke. 6in. Double-acting Vertical Boiler Feed Pump, with 10in. steam cylinder, 15in. stroke.

591 CHUBB & SON'S LOCK AND SAFE CO., LIMITED, Cross-street, Manchester; also Liverpool, Wolverhampton, Bombay, Melbourne, &c.; chief warehouse, 128, Queen Victoria-street, London.

Chubbs' complete Banker's Strong Room and Equipment. A full-sized steel strong room is arranged so as to show Chubbs' patented methods of erecting their steel walls, strengthened externally by steel angle ribs. Vestibule is closed by Chubbs' hard steel massive banker's door, secured by Chubbs' patent diagonal bolts, which are controlled by two Chubbs' new patent gunpowder and acid proof locks. On each side sections of masonry illustrate their various systems of building the exterior surrounding walls. The vestibule is closed in day-time by Chubbs' patent self-locking grills. The interior, lit by electricity, consists of outer strong room, for papers, boxes, &c., and inner room, containing a bullion treasury, with all necessary shelving and appliances. Chubbs' Fire-resisting Doors, as selected by the Executive, and approved by the Insurance Companies for protecting all the openings of the Fine Art Galleries, Refreshment-rooms, &c. Chubbs' Diamond and Jewel Cage, for displaying jewels or precious stones by day and securing them against fire and thieves by night, without the possibility of access by operating the mechanism unless owner is present. Chubbs' Patent Hardened-steel Safes, in every variety and quality, for fire or burglar resistance, or both, as used throughout the Exhibition for the Executive offices. Chubbs' Detector Locks, Latches, and Padlocks. Chubbs' new patented make of cheap, good House Locks, as fitted throughout the Exhibition.

592 CHATWOOD'S PATENT SAFE AND LOCK CO., LIMITED, 11, Cross-street, Manchester.

Banker's Steel Strong Room. Banker's Strong Room Door and Frame. Intersected Steel Safe. An assortment of Fire, Fall, and Burglar Proof Safes. An assortment of Invincible Locks, &c. Carriage Door Locks for Railways, &c

593 Herbert Fordsmith, Hadfield-street Works, Cornbrook, Manchester.

Adjustable Pedestals. Patent Adjustable Hangers. Adjustable Wall Bracket. Concentric Coupling. Various Steel Keys and Taper Pins. Photographic Rolling Presses.

594 Hans Renold, Green-lane, Brook-street, Manchester.

Renold's Patent High-speed Steel Driving Chains.

595 The Manchester Water Meter Co., Limited, Tipping-street, Ardwick, Manchester.

Patent Positive Water Meters.

596 H. B. Barlow & Co., Cornbrook Works, Chester-road, Manchester.

Wire Healds for weaving, and shafts for the same. Expanding Mandrels for lathe and other machine work. Face-plate Expanding Mandrels to dispense with back centre support.

597 F. Fordsmith, Ordsal Hall Iron Works, Ordsal-lane, Salford.

Assortment of Engineers' Highly-finished Bolts, Nuts, Screws, Studs, &c.

598 Milners' Safe Co., Limited, 28, Market-street, Manchester.

Banker's Strong Room Door, Lobby, and Grille. Banker's Safes. Fire-resisting Safe; do. fitted with a chronometer time lock. Cash Safe. Plate Safe (not fire resisting). Jewellery Safe, fitted with mahogany drawers and sliding trays lined with velvet. A selection of Milners' Japanned Cash, Paper, and Deed Boxes.

599 George Price's Safe, Lock, and Engineering Co., Limited, Cleveland Safe and Lock Works, Wolverhampton; Blakemore Foundry, Wednesbury; and 46, Corporation-street, Manchester.

A 72in. Double Door Commercial Safe, with bullion coffre. Jewel and Cash Safe. Treble-bodied Diamond Safe. A Banker's Safe, and Safes for all purposes. Copying Press Stand. Hoist Protector. Heating Apparatus. Mixing Mill and Distilling Apparatus. Locks, Keys, &c.

600 Bolckow, Vaughan, & Co., Limited, Middlesbrough-on-Tees.

Samples of Coal, Coke, Limestone, Cleveland Ironstone, Hematite, Manganiferous and Manganese Ores. Cleveland, Basic, and Hematite Pig Iron. Spiegeleisen, Ferro-Manganese, and Silico-

Ferro-Manganese. Steel Ingots. Blooms. Billets. Round and Square Bars. Double-headed, Bull-headed, Flange, and Bridge Rails. Sleepers and Sleeper Keys. Fish Plates. Sole Plates. Ship, Boiler, and Bridge Plates. Angles. Bulb Angles. Bulbs and Girders. Crucible and other Steel Castings. Salt. Fire Bricks. Ground Basic Slag for manure.

601 ROBERT AND JOHN DEMPSTER, Gas Plant Works, Newton Heath, Manchester.

Model of Wrought-iron Retort-house Roof, 90ft. span. Model Wrought-iron Web Plate Girder. Model of Wrought-iron Lattice Girder. Model of Complete Sulphate of Ammonia-making Plant. Model of Patent Centre Valve for working gas purifiers. Model of Two Gas Scrubbers, 12ft. diameter by 50ft. high, for extracting ammonia. Model of Water and Ammoniacal Liquor Distributors for gas scrubbers. Model of Annular Condensers for cooling gas. Model of Self-sealing Retort Mouthpieces. Combined Engine and Rotary Gas Exhauster, with pump, and two 6in. disc valves, complete, to pass 5,000 cubic feet of gas per hour. Combined Engine and Reciprocating Gas Exhauster, to pass 4,000 feet per hour. Gas Exhauster Governor for regulating steam or compensator. Gas Exhauster Flap Bye-pass Valve. Self-sealing Retort Mouthpiece. Coke-breaking Machine. Framed Drawings and Photographic Views.

602 HADFIELD'S STEEL FOUNDRY CO., Hecla Steel Casting Works, Sheffield.

Cast-steel Castings of every description for Engineering purposes, Railways, Tramways, Shipbuilders, Rolling Mills, Hydraulic Engineers, Gearing of all classes, Dredging, War Material, Collieries, Mines, Quarries, Railway Contractors, &c., comprising, Engineering, &c.: Steel castings to take the place of expensive steel and wrought-iron forgings, crossheads, cranks, and traction-engine gearing. Railways: Engine wheel centres up to 8ft. dia. (plain or cast with crank bosses and balance weights), motion plates, roof staybars, horn blocks, axle boxes and slides, crossheads, piston blocks, buffer boxes, cranks and crank pins, tumbler shafts, points, crossings, dome-rings, manholes, light platelayers' trolley, wheels and axles, cast-steel crossings, &c. Tramways: Patent Hecla wheels, tram engine wheels, points, crossings, &c. Shipbuilders: Cranks, levers, crossheads, propeller blades, nuts, couplings, and other marine castings. Rolling Mills: Helical pinions, gearing, anvils, spindles, tups, &c. Hydraulic Engineers: Cast-steel press cylinders and rams of all kinds, either in rough or finished, complete ready for use, up to 22ft. in length, to stand any desired pressure; glands, pumps, press plates, doors, cheeks, rivetters, hobs, &c. Gearing: Every description of spur, bevel, mitre, pinion, segment and worm gearing, with straight or helical teeth, machine moulded by patent machinery, or from full patterns. Dredgers: Hadfield's patent bucket, cast complete; also built-up buckets, bored and bushed complete; dredger backs, lips, links, tumblers, bars, pins, mouthpieces, bushes, gearing, &c. The

cast-steel dredger buckets, exhibited by the kind permission of J. Garlick, Esq., C.E., Preston, are those now being used in dredging the Preston Canal, and are similar to what will be required in dredging for the proposed Manchester Ship Canal. War Material: Patent cast-steel projectiles, gun carriage castings, common and shrapnel shells. One of our patent cast projectiles for 9·2in. breech-loading gun is exhibited, which has penetrated 24¾in. of wrought iron, passing completely through a 16½in. Cammell wrought-iron armour plate, 2ft. of wood, and 8½in. into a second wrought-iron plate placed behind. The projectile was practically uninjured. Also a 6in. projectile, which has passed through an 8in. wrought-iron plate, and was so little injured that it could be put into the gun and fired again. There are also exhibited two 9·2in. common shells (Hadfield's patent), as now being supplied to Her Majesty's Government. Collieries, Mines, Contractors, &c.: Wheels and axles, pedestals, rollers, pulleys, cage guides, points, crossings, &c. Wheels and axles fitted by Hadfield's patent system for contractors' wagons, light railways, stamp shoes and dies, tappets, cams, levers, &c. Registered angle sheaves for carrying ropes round curves. Registered self-oiling rollers and frames, patent self-oiling wheels, barrow wheels, &c. Shavings from unhammered steel castings, models of dredger buckets, colliery requisites, &c. A pair of steel wheels and axles, which, after falling down a shaft 1,770ft. deep, are only slightly bent.

603 Smith and Coventry, Limited, Gresley Iron Works, Ordsal Lane, Salford, Manchester.

Tighe Hamilton's Patent Wheel Cutting Machine. Jadosky's Patent Cigarette Machine. Thorne's Patent Portable Drilling Machine. Smith and Coventry's Patent Twist Drill Grinding Machine. Smith and Coventry's Patent Capstan Rest Chasing Lathe, 6in. centres. Smith and Coventry's Patent Capstan Rest Chasing Lathe, 10in. centres. Cooper's Patent Brass Finisher's Lathe. Double-geared Universal Milling Machine. Longitudinal Milling Machine. Circular Saw, for cold iron. High-speed Press Drilling Machine. Surface Plates, Straight Edges, Twist Drills. Milling Cutters, Cylindrical Gauges and Samples of Work.

604 Chas. L. Baker & Co., Cornbrook Telegraph Works, Worsley-street, Egerton-street, Hulme, Manchester.

Electric Light Fittings. Electric Bells and Indicators. Telephone Apparatus. Testing and Railway Telegraph Instruments. Lightning Conductor Fittings. Philosophical Apparatus.

605 L. Sterne & Co., Limited, The Crown Iron Works, North Woodside-road, Glasgow.

Tool Grinder. Universal Emery Grinder. Emery Grinder. Tool Grinder, with attachment for grinding twist drills. Assortment

of Emery Wheels. Assortment of Spiral Springs, and Sterne's patent Volute and Compound Rubber Springs. Case of Articles showing work done by Emery Wheels.

606 CHARLES TOPHAM ARCHER, Albion Works, Cloudsley Place, Liverpool-road, London.

Sausage and Mincing Machines, various sizes. Coffee and Wheat Mills. Patent Potato Masher and Fruit Presser. Presses and Appliances for manufacturing the above patented presser.

607 WM. BUCKLEY & Co., Patent Piston Works, Millsands, Sheffield.

Buckley's Patent Compound, Compensating, Metallic Pistons and Packings.

608 THE UNBREAKABLE PULLEY Co., Ogden-street, Ardwick, Manchester.

Wrought-iron Pulleys, Bushes, and Wells' Lamps.

609 SCHAFFER AND BUDENBERG, 1, Southgate, St. Mary's-street, Manchester.

Collection of Steam Pressure, Vacuum, and Hydraulic Gauges of various kinds. Injectors, Governors, Engine Indicators, Counters, Tachometers, Low Water Alarums, Steam Traps, Lubricators, Brass and Iron Valves, Test Pumps, Pulsometers, and General Engine and Boiler Fittings.

610 J. HOPKINSON, & Co., Britannia Works, Huddersfield.

Corrugated Copper Cylinders. Patent Torpedo Washer. Corrugated Copper and Brass Tubes, Valves, and Taps.

611 MESSRS. NASMYTH, WILSON, & Co., LIMITED, Bridgewater Foundry, Patricroft, near Manchester.

Patent Six Cylinder Horizontal Direct-acting Hydraulic Pumping Engines. Cast-steel Bottom Cylinder for Patent Compound Vertical Cotton Press. Cast-iron Ram with gun-metal shoe for Patent Compound Vertical Cotton Press. Cast-steel Cylinder for Patent Finishing Cotton Press. Cast-iron Ram with gun-metal shoe for Patent Finishing Cotton Press. Wrought-iron Column with nuts for Patent Finishing Cotton Press. Vertical Drilling and Boring Machine. Model of Patent Compound Vertical Cotton Press.

612 TITANIC STEEL Co., New Islington, Manchester.

Samples of Steel Castings.

613 SEEBOHM AND DIECKSTAHL, Dannemora Steel Works, Sheffield.

Case containing Bars and Fractures of Swedish Iron, Blister Steel, and Crucible Cast Steel, for engineers' and other tools, &c. The fractures show the appearance of the various descriptions of steel according to the percentage of carbon, &c. Also Fractures of Self-hardening and other special Steels. Spiral Springs, Saws, Tools.

614 THORSTEN NORDENFELT, M.Inst.C.E., 53, Parliament-street, London, S.W.

Samples of Wrought-iron Castings and Steel Castings, finished and unfinished, made by the Mitis process.

615 JOSEPH RAYNOR & SONS, Cambridge Iron Works, Oldham.

Swivel Incline Card Engine, Roller, and Cotton Lap Carriage. Swivel Cotton Lap Carriage. Straight Card Engine Roller Carriage. Swivel Cotton Can Carriage. Emery Roller Carriage. Spinning-room or Cellar Carriage. Model of Double Tramway Point. Small Condensing Steam Engine, 2 cylinders, 4in. stroke.

616 E. JAGGER & Co., Tomlinson-street Works, Ashton-road, Oldham.

Portable Cop Tubing Apparatus. Pickford and Jagger's Patent Spindle Footstep Protector.

616A JOHN SWAILES AND SONS, Oldham Cop Tube Works, Moorhey, Oldham.

Paper and other Tubes used in textile manufacture and Patent Apparatus for placing them on the spindles of all kinds of spinning and doubling machinery.

617 THE STEEL COMPANY OF SCOTLAND, LIMITED; offices 150, Hope-street, Glasgow; works, Hallside and Blochairn, Glasgow.

Samples of Boiler, Ship, and Bridge Plates, Angles, Tees, Beams, and other sections. Rails for permanent way and tramways. Steel Castings and Forgings. Reeled Bars. Flanged and Welded Boiler Plates. Eye-bar Blanks for bridges. Bridge Plates, with rolled edges, &c.

618 JAMES STOTT & Co., 10, Market Place, Manchester.

The Vernon Patent Combined Gas Governor and Stop Valve. Test-holders for experimental purposes. Gas Consumption Indicators. Gas Pressure Gauges. Gas Leakage Indicators. Test Meters. Gas Lamps and Burners. Semi-rotary Pressure Pumps. Gas and Steam Cocks and Fittings.

619 THE ELECTRIC PORTABLE BATTERY AND GAS IGNITING CO. LIMITED, Clegg's Court, Salford, Manchester.

Patent Dynamo Electric Gas Lighters. Electric Bells, from 2¾in. to 6in. gongs, continuous action, and ordinary Leclanché, Bunsen, bichromate, and patent chloride of silver hermetically-sealed Batteries. Electric Indicators, Court Sets, consisting of bell, battery, wire and push, self-contained Switches, one to four way. Wood, China, Brass, and Pear Pushes. Assortment of Wires for bell and electric light purposes. Induction Coils, self-contained, with sealed batteries for medical use, in miscellaneous sizes. Show Bottles of Chemicals, as used in electric batteries. Induction Coils, Electric Cigar Lighters, Miniature Electric Bath for medical purposes, Galvanometers, Magneto-electric Machines and Dynamo-electric Machines for lighting. Also a 250-light Dynamo in Dynamo House. Clock Motors.

620 THOS. FIRTH & SONS, LIMITED, Norfolk Works, Savile-street East, Sheffield.

100-ton Gun, muzzle part. 16cm. Gun Tube. 90mm. Gun Tube. Gun Jacket. Gun Ring. Gun Ring. Large Trunnion. Small Trunnion. 9·2in. Projectile. 100-ton Gun Projectile. Locomotive Crank Axle. Piston Rod. Large Screw Propeller Blade. Three-blade Screw Propeller. Pivot Plate. Transom. Paddle Centre. Hydraulic Cylinder. Wheel Centre. Toothed Wheel Tyre. Toothed Wheel. Tramway Car Wheels and Axle. Tramcar Wheel fitted. Tramcar Wheel unfitted. Tramcar Wheel Tyre polished. Steel Turnings. Case containing Saws. Cases containing Files, Edge Tools, and Specimens of Steel.

621 GRESHAM AND CRAVEN AND THE VACUUM BRAKE CO., LIMITED, Craven Iron Works, Manchester; and 32, Queen Victoria-street, London, E.C.

The Vacuum Automatic Continuous Brake and Passenger Communication for Railway Trains. Gresham's Patent Self-acting Re-starting Injectors, Exhaust Injectors, Combination Vacuum Ejectors, Water Lifters and Ejectors, &c. Holt and Gresham's Patent Steam Sanding Apparatus for Locomotives. Gresham's Patent Combination Steam and Feed Valves for Injectors and Ejectors. Holt's Patent Feed Pipe for Locomotives.

622 THE STAFFORDSHIRE STEEL AND INGOT IRON CO. LIMITED, Bilston, Staffordshire.

Pig Iron. Ingots. Blooms. Billets. Bars. Plates and Sheets of Soft Steel or Ingot Iron, with Finished Articles made therefrom. Slag or Cinder produced in the process of making pig iron into soft steel.

623 JOHN HENRY ANDREW & CO., Toledo Steel Works, Sheffield.

Tempering Steel, in bars, sheets, ingots, billets and forgings. Files. Hammers. Carriage and road conveyance Springs. Carriage and road conveyance Axles.

624 John Crowley & Co., Corporation-street, Manchester; and Meadow Hall Iron Works, Sheffield.

Malleable Castings showing various kinds manufactured by the exhibitors. Weston's Patent Direct Differential Pulley Block complete with chain. Assortment of Knight's Patent Knife and Fork Cleaners and Knife Sharpeners. Weston's Patent Tubular Roller Bearings in six sizes. Samuel Edwards's Patent Duplex Safety Lever Chaff Cutter, No. 6E, by which the user is secured against accident in working. Samuel Edwards's Patent Invincible Lawn Mowers, 10in., with wood rollers to work either in front or at back of revolving cutters. Samuel Edwards's Improved Lawn Mower The Victor, 12in., with wood handle. Wheel Barrow with malleable cast-iron framework and sheet-iron sides and bottom. Sundry Castings used in connection with Textile Machinery. Malleable Iron Warping and Loom Beam Flanges. Harris's Patent Fasteners for connecting strapping. Wood Bobbins provided with Patent Metal Protectors for roving and slubbing frames.

625 Joseph Webb & Co., Irwell Forge and Rolling Mills, Bury, Lancashire.

Single-throw Bent Cranks. Double-throw Bent Engine Crank. Double-throw Bent Pump Crank. Treble-throw Bent Engine Crank. Four-throw Bent Pumps. Single-throw Bent Loom Cranks. Single-throw Bent Square Cranks. Specimens of Roller Iron, turned, fluted, and finished. Specimens of Socket Iron, turned and finished. Specimens of Scrap Iron.

626 Ebbw Vale Steel, Iron, and Coal Co., Limited, Ebbw Vale, Monmouthshire.

Rail and Fishplate Sections. Sleepers and Rail Joints. Pig Iron. Puddled Iron. Bar Iron. Coke. Bricks, ornamental and plain.

627 James and Frederick Howard, Britannia Iron Works, Bedford.

Specimen of Patent Portable Railway, 24in. gauge, 14lb. rails. Tipping Wagon. Specimens of Sleepers for permanent and portable railways.

628 Howell & Co., Brook Steel Works and Sheffield Tube Works, Sheffield.

Howell's Tool Steel. Bright-drawn Steel Shafting. S. E. Howell's Patent Blind Action for railway carriage and other window blinds. Electro Copper-coated Steel Tubes. Copper and Brass Cased Steel Tubes. Vacuum Brake Tube and Fittings. Tuyere and Heating Coils. Well-boring Tubes. Cold-drawn Steel Tubes for boilers, bicycles, and tricycles. Tubes for hydraulic rams.

629 The Bolton Iron and Steel Co., Limited, Bolton, Lancashire.

Weldless Steel Angle Ring, for jointing boiler barrels on to tube or end plates. Weldless Steel Flat Hoop, for joining barrel plates of boilers. Weldless Steel Expansion Rings, for boiler flues. Welded Steel Boiler Flue, with expansion rings. Weldless Steel Angle Ring, for boiler domes. Cast-steel Bases and Stand Pipes, for boilers. Warp Beam, with patent steel flanges. Stamped Steel Hemisphere, for submarine mines. Steel Crank Axle, which has worked for nearly 19 years, and run 526,185 miles. Cast-steel Wheel, for locomotive engine. Models of Patent Girders.

630 Leeds Forge Co., Limited, Leeds.

Fox's Patent Corrugated Boiler Furnace Flues. Leeds Forge Siemens Mild Steel Plates for boiler purposes. Fox's Pressed and Flanged Parts of Boilers. Weldless Steel Parts of High-pressure Boilers. Specimens of Leeds Forge Siemens Mild Steel. Fox's Patent Flanged Frame Plates, for rolling-stock.

631 The Ashbury Railway Carriage and Iron Co., Limited, Openshaw, Manchester.

Hopper Wagon, which unloads through the bottom by means of self-closing doors. Pair Railway Carriage Wheels and Axles, Mansell's patent, with patent locking keys, teak wood centres, one wheel having a wrought-iron hydraulic pressed boss and the other a cast-iron boss. Pair of Mansell's Wheels and Axles, suitable for tram-cars. Pair of Solid Wrought-iron Hydraulic-pressed Railway Wagon Wheels and Axles.

632 Askham Bros. and Wilson, Limited, Yorkshire Steel Engineering Works and Crucible Steel Foundry, Sheffield.

Centrifugal Pulveriser. Mumford Moodie's Patent Separator. Patent Automatic Fixed Points and Rolled Steel Heelplates for Tramways. Crucible Steel Movable Points and Crossings. Crucible Steel Castings for engineers, marine, and colliery purposes. Show Case containing Samples and Fractures of Cast Steel. Samples of Material treated in the Pulveriser.

633 Francis William Webb, C.E., London and North-Western Railway, Crewe.

F. W. Webb's Inside Carriage Handle. This handle is placed inside the carriage; it is not fitted to the door like the outside handle, but to the door frame, and is placed high up out of the reach of children; to open the door the handle is simply pulled downwards, and does not in any way interfere with the outside handle; it can be thrown out of action from the outside if desired by the officer in charge of the train. High-pressure Engine designed by

Richard Trevethick about 1803-9, and made by Hazeldine & Co., of Bridgenorth; working pressure, 60lb per square inch. This engine was found at Hereford in a dismantled state by Mr. F. W. Webb, of Crewe, in 1883, and purchased as scrap iron; the parts were taken to Crewe and put together as now seen; some of them were unfortunately found to be broken; these were pieced and a few missing parts were restored, and made to accord as nearly as possible with the illustration in the Life of Trevethick. Full Size Model of the Rocket. This model, made at Crewe Works, represents the original engine as it appeared when it competed for the prize of £500 offered by the directors of the Liverpool and Manchester Railway Company, at Rainhill, in 1829; the engine weighed, in working order, 4 tons 3 cwt.; it ran at the rate of 12½ miles per hour with a load equivalent to three times its weight, and when taking a carriage and passengers it travelled at the rate of 24 miles per hour. The Rocket now at South Kensington represents the engine as subsequently altered.

634 The Ashbury Railway Carriage and Iron Co., Openshaw, Manchester.

Reversible Tramcar for two horses, to carry 17 inside passengers and 21 outside. The outside seats are placed transversely, commonly known as garden seats. The car turns round upon a bogie frame. Iron Tipping Wagon.

635 Lancashire and Yorkshire Railway Co., Hunt's Bank, Manchester.

Invalid Saloon Railway Carriage, 32ft. long by 8ft. wide, fitted with invalid bed and other equipments. Models and Drawings of early Railway Carriages and Brake, and Model of Patent Axle Box.

636 Sharp, Stewart & Co., Limited, Atlas Works, Manchester.

Eight-wheels-coupled Consolidation Locomotive Goods Engine and Tender, for 1 metre gauge.

637 Beyer, Peacock & Co., Gorton Foundry, Manchester.

Four-wheels-coupled Inside Cylinder. Express Passenger Locomotive Engine and Tender. Small Four-wheels-coupled Outside Cylinder Locomotive Engine, Dot, gauge 1ft. 6in., specially constructed for working on tramways in yards and workshops, and also adapted for tail rope shunting of ordinary railway wagons, &c.

638 Francis William Webb, C.E., London and North-Western Railway, Crewe.

Model of Rocket and Tender, as originally designed by Robert Stephenson, and as they appeared at Rainhill in 1829, when competing for the prize of £500 offered by the Directors of the Liverpool and Manchester Railway, prior to the opening of the line.

639 Francis William Webb, C.E., London and North-Western Railway, Crewe.

Compound Goods, Side Tank Locomotive, with two high-pressure cylinders, 14in. diameter by 24in. stroke, and one low-pressure cylinder 30in. diameter by 24in. stroke, driving wheels 5ft. 2½in. diameter. Duplex Reversing Gear for compound engine, by which both high and low pressure engines may be reversed together or separately, and any degree of expansion obtained as required. Bent Steel Crank for low-pressure cylinder of compound engines. Working Model to ⅛ scale of Webb's three-cylinder compound express passenger engine. Steel Wheels and other Castings made at Crewe Works. Webb's Steel Permanent Way, with Ramsbottom water trough attached, as used on the L. and N.-W. Railway. Standard Signal and Interlocking Gear, as used on the L and N.-W. Railway, and Key Locking for small stations; also Electric Locking and Repeating Instruments. Model to ⅛ scale of Standard 42ft. Carriage, with Webb's system of radial wheelbase, as used on the L. and N.-W. Railway. Railway Carriage Door and Frame fitted with Webb's arrangement of inside handle, for opening the door from the inside. A Series of Photographs showing types of engines and places of interest on the L. and N.-W. Railway.

640 Lancashire and Yorkshire Railway Co., Hunt's Bank, Manchester.

Lancashire and Yorkshire Railway Express Bogie Passenger Engine and Tender, fitted with Automatic Vacuum Brake, four wheels coupled, 6ft. diam. on tread, bogie wheels, 3ft. 0½in. diam. on tread, cylinders 17½in. by 26in., heating surface, 1,031 square ft.

641 The Manchester, Sheffield, and Lincolnshire Railway Co., London-road Station, Manchester.

Bogie Locomotive Engine for Express Passenger Service.

642 Nasmyth, Wilson, & Co., Limited, Bridgewater Foundry, Patricroft, near Manchester.

Locomotive Tank Engine, four wheels coupled, with four-wheel bogie, 3ft. 6in. gauge. Open Standard Steam Hammer (20cwt.), fitted with self-acting and hand motion. Model of Patent Convertible Wagon. Model of Blowing Engines.

643 The Manchester, Sheffield, & Lincolnshire Railway Co., London Road Station, Manchester.

Six-wheeled Composite Lavatory Carriage.

644 Albion Iron Works Co., Rugeley, Staffordshire.

Vertical Steam Engine, 4h.p., 5¾in. cylinder, and Vertical Cross-tube Boiler, mounted on water tank base. Horizontal Steam Engine, 4h.p., 6¼in. cylinder, fitted with high-speed governor. Crushing and Grinding Mill, with chilled cast-iron cylinder and

concave, fitted with self-acting safety lever, patented adjustment and feed appliance. Chilled Cast-iron Grooved Roller and Breast, for grinding and crushing purposes.

645 Isaac Storey & Sons, Knott Mill, Manchester.

Range of Colour-mixing Pans, with stirring gear, for calico printers. Set of Colour Measures and Scopes in Copper. Gun-metal Shell and other Castings. Speed Indicators. Engine Indicators. Pressure Gauges. Gun-metal Steam Valves and Cocks. Engine and Boiler Fittings. Cast-iron Steam and Water Valves.

646 Alexander Oldham & Sons, Johnson Brook Patent Piston Works, Dukinfield.

Weldless Steel Coil Piston Springs. Air Pump Buckets. Pistons Complete.

647 Ince Forge Company, Wigan.

Long Pin Crank Shaft (Marine), in iron, forged with open sweep, pin drawn under hammer. Connecting Rod, Marine, forged from Siemens-Martin ingot steel. End for Hollow Built-up Crank Shaft, forged from Siemens-Martin ingot steel.

648 Perkins, Son, and Barrett, The Forge, Bradford, Yorks.

Wrought-iron Split Pulleys. Patent Pulleys for double drives. Turned Iron and Steel Shafting and Couplings. Bearings of various descriptions, and different varieties of Fixings for millwright work.

649 Astbury & Co., Engineers, 9, Albert Square, Manchester.

5¼in. centre Self-acting Foot Lathe, Standard Pattern, of new design. The headstock is fitted with hardened and ground steel spindle, with conical bearings, and Clement's driver; sliding and screw-cutting arrangement, with guide-screw and 22 change wheels; also self-acting surfacing motion by back shaft; treadle motion, with crank working on hardened steel centres. All the gear wheels are machine-cut, from solid blanks. The lathe has a gap bed 5ft. long, admitting 27in. between the centres, and 18in. diameter in the gap. Usual accessories are provided. 7¼in. Centre Self-Acting Lathe. The headstock has a steel spindle with conical bearings and Clement's driver, guide-screw and 22 change-wheels; also self-acting sliding and surfacing by back shaft, the various motions being controlled from front to the saddle. Top driving apparatus with two sets of pulleys, and usual accessories are provided. All gear-wheels have the teeth cut from solid. The gap bed is 8ft. long, admitting 4ft. 9in. between centres, 25in. diameter in the gap.

650 GLENFIELD CO., LIMITED, East Shaw-street, Kilmarnock.

Water Meter Pressure Recorder Alarm for detecting bursts in water mains. Drinking Fountain and Patent Self-closing Tap. Sluice Valves. Patent Ball Valve. Spindle Hydrant and Branch Pipe. Fire Cock. Stand Pipe and Hose. Lock Surface Box and Fountains; and a number of Photos.

651 LLOYD AND LLOYD, Albion Tube Works, Birmingham.

Gas Tubes. Galvanised Tubes. Steam Tubes from $\frac{1}{8}$in. to 4in. Boiler Tubes, made in wrought iron, steel, and homogeneous metal, and lap-welded. Elbows, Nipples, &c., of various sizes. Short Pieces of Screwed Tube, and also Special Tubes and Fittings of various shapes. Boiler Tubes with copper ends. Hydraulic Fittings. Samples of Homogeneous Metal Tubes, crushed, to show the quality of the metal. Steel Fittings for Boring Rods. Artesian Well-boring Tubes, flush joint and swelled joint. Steel Boring Rod, with cutting crown and core extractor. Stay Tubes, with back nuts. Hydraulic Tube, with hexagon socket, ends of tubes coned and faced. Boiler Tube, which has been flattened in parts under steam hammer to show quality of iron. Solid Bottom Cock, as used for steam and water, with both iron and brass plugs. Main Cocks. Coils of various descriptions. Boiler Tubes, with one end welded up, as used for Field's patent boilers. Reservoirs for Gas or Air, with ends welded in by Lloyd and Lloyd's patent process. Norton's Patent Well Tube, with pointed end for driving into ground.

EXHIBITS IN GROUNDS OF MACHINERY SECTION.

660 THE PATENT PARAFFIN GAS LIGHTING CO., LIMITED, 12, Washington-street, Glasgow.

Oil Gas Works in full operation, showing the gas being made from paraffin oil or petroleum. The gas, which is 60 candle-power, is shown burning in a dark room, with practical demonstrations of the light as compared with the Manchester coal gas, also shown burning under pressure.

661 A. C. WELLS & CO., Ogden-street, Ardwick, Manchester.

Corrugated Square Hut. Fancy design manufactured by E. C. and J. Keay, Birmingham, to hold Wells' New Light Lamp; also Lamps exhibited outside.

662 THE DOWSON ECONOMIC GAS AND POWER CO., LIMITED, 3, Great Queen-street, Westminster, London, S.W.

Apparatus, in operation, producing Fuel Gas, suitable for driving Gas Engines, heating Bakers' Ovens, Cocoa Roasting, Type Founding, Soldering, Singeing Fabrics, Gassing Yarns, &c. The

Apparatus shown is provided with a governing arrangement, by means of which the production of gas is regulated automatically to suit a varying rate of consumption. The gas produced is used for driving a 14h.-p. (nom.) Otto engine.

663 JOSEPH BAKER & SONS, 58, City-road, London, E.C.

Bread, Biscuit, and Cake Making Machinery and Ovens, in operation daily. Confectionery, Chocolate, and Ice Cream Making Machinery, the whole worked by 7h.-p. Otto Gas Engine. Bread Making: The Baker Patent Flour Sifting and Mixing Machine, the New Patent Thomson Double-action, Reversing, Self-tilting, and Double Speed Mixing and Kneading Machine, the Automatic New Patent Dough Scaling and Dividing Machine, for accurately and mechanically dividing, weighing, and delivering to Moulding Tables Loaf Bread Doughs, from largest to smallest sizes, without being touched by hand, and without being previously weighed into the machine; the Table New Patent Dough Divider (for hand), for Rolls, Buns, Scones, &c.; Sponge Tub Lifting Machine, Patent Self-sustaining Safety Sack Lifts and Hoists, for hand and power; New Enamelled Mixing Troughs, the Bailey-Baker Patent Continuous Baking Ovens, combining the systems of external and internal heating, with Patent Lighting Arrangement, Pyrometers, and fitted with Vienna Bread Steam Pipe Connections, one Oven having Furnace in front and one at the back end, showing system of Lift and Hinge Oven Doors. Cake Making Machines: The New Arm Beater and Cylindrical Machines for Butter Batters, the Morton, Griffith, and Waddall Whisks and Sponge Cake Beaters, the Baker-Cadisch Double Beater Machine, for Angel's Cakes and Light Mixtures, Baker's Patent Fruit Cleaning and Drying Machines, Peel Cutting Machines, Almond Blanching and Husk Separating Machine, Almond Mills and Granite Rollers for making Almond Paste, Gas Hot Plate for Muffins, Crumpets, &c. Biscuit Machinery: Baker's New Patent Vertical Mixing Machine for Hard and Soft Doughs, with Automatic Raising and Lowering Motion for the Spindles and Mixers; No. 5 Heavy Reversing Brake Rollers, 32 × 12; Improved New Design Hard and Soft Dough Cutting Machine for all kinds of Fancy Biscuits, with new Skip Motion, Continuous Gauge Motion, and with Baker's New Patent Silent Pawl and Ratchet Motion. Miniature Model Biscuit Factory, replete with Working Models of above Machines, and Patent Travelling or Chain Oven, Patent Reel Oven, Patent Automatic Sugar Wafer Making and Baking Machine. Sifting, Fruit Cleaning and Cake Making Machines, driven by Miniature Steam Engine. Confectionery and Chocolate Making: Patent Sugar Mill and Sifter, Gas Heated Sugar Boiling Stoves, Pouring Plates and Slabs, Drop Roller Machines, Candy and Tablet Cutting Machines, the Hurry Patent Combined Lozenge Pinning, Printing, Stamping, Cutting, and Spreading Machine; Turn-table Chocolate Mixer, Granite Roller Chocolate Refiner, Rapping Tables, Moulds, Presses, &c. Ice Cream Making in Operation: The Kirchoff Perrault and Rapid Patent Freezers, for hand and steam power. Showroom of Latest Improved Hand Machines, Moulds, Tools, and Utensils for the Baking and Confectionery Trades. Model Restaurant Fittings, Urns, Tables, Show Stands, Fancy Scales, &c.

664 MATHER AND PLATT, Salford Iron Works, Manchester.

Patent Cylinder Filter for the treatment of large quantities of liquids, especially water, and for removing from the same solid, greasy, or slimy matter; also applicable for treating sewage. Each filter consists of two vertical perforated metal tubes, one placed within the other, the space between them being filled with sawdust, charcoal, or other filtering material. The liquid to be filtered has to enter through the perforations in the outer cylinder, or tube, and, after passing through the filtering material, is collected in the inner tube, whence it is conveyed into the service pipes.

665 THE BABCOCK AND WILCOX Co., Glasgow and New York; 107, Hope-street, Glasgow; works, Kilbowie, near Glasgow.

Babcock and Wilcox Patent Water-Tube Boiler, of 173h.-p.

666 THWAITES BROTHERS, LIMITED, Vulcan Iron Works, Bradford, Yorkshire.

Stewart's Patent Rapid Iron Melting Cupola and Receiver. Will melt five tons of pig iron and scrap per hour, with five cwts. of coke. The internal lining is Grayson Lowood's Gannister Bricks. The quantity of air necessary to melt five tons of iron per hour is 4,000 cubic feet per minute, and the pressure $\frac{3}{4}$lbs. per square inch.

667 W. H. BAILEY & Co., Albion Works, Salford, Manchester.

Bailey's Patent Vertical Hot Air Engine. Bailey's Patent Horizontal Hot Air Engine. Double-barrelled Crank Pump. Portable Garden Pump.

668 THE BUTTERLEY Co., Butterley Iron Works, Alfreton, Derbyshire.

Steel Bulb Angle, 100 feet long. Steel Bulb Tee, 76ft. long, kneed and cambered. Iron Rolled Girder, 60ft. long. Round Steel Bar, 60ft. long. Steel Plate, 11ft. 6in. by 9ft., by $\frac{5}{8}$in. thick. Steel Hemisphere. Steel Ingot. Hammered Steel Slab. Steel Galloway Tubes. Collection of Sections and Worked Samples of Iron and Steel. Cast-iron Water or Gas Pipes, from 36in. diameter downwards. Block of Coal from our Butterley Collieries, Derbyshire. Block of Ironstone from our Silverdale Mines, North Staffordshire.

669 ONTARIO PUMP Co,, Toronto, Canada, and 25, Gunter Grove, Fulham-road, London, S.W.

10ft. Halladay Standard Windmill, attached to pump in working order. Model of a Pumping Windmill. General Purpose Pump. Deep Well Pump for Hand or Power use. Force, or Lift Pump, for hand use.

670 A. Shirlaw & Co., Suffolk Works, Berkley-street, Birmingham.

Two h.-p. Nominal Spiel's Patent Petroleum Engine, driving an Edison Dynamo and installation of 30 incandescent lamps. Half h.-p. Nominal Spiel's Patent Petroleum Engine, driving a No. 3 Bailey's Harlech Strap Pump, raising about 4,000 gallons of water an hour to a height of about 30ft. Four h.-p. Nominal Spiel's Patent Petroleum Engine; to be seen at work when required. Five man power Nominal Vertical Spiel's Patent Petroleum Engine, working. Collection of Screwing and Lifting Tackle, consisting of Screwing Machines, Stocks and Dies, Twist Drills, Patent Twist Drill Grinder, Taps, Tube Cutters, &c., Screw Jacks and Bears, Hydraulic Jacks and Bears, Duplex Punching Bears, Pulley Blocks, Jim Crows, &c.

671 Edwin Mansfield & Sons, 28, Barton Arcade, Deansgate, Manchester.

Mansfield's Patent Oil Gas Apparatus for the manufacture of gas for illuminating, driving gas engines, cooking and heating.

672 McFarlane, Strang, & Co., Limited, Lochburn Iron Works, Glasgow.

Samples of 48in. Cast-iron Piping for Bombay Waterworks, and 40in. Piping for the Thirlmere Aqueduct of the Manchester Corporation. Smaller Pipes and Connections, Bends, Branches, &c.

673 Wm. Johnson, Castleton Foundry, Armley-road, Leeds.

Kennedy's Semi-dry Brick, Tile, Cement and Concrete Block and Seedcake Making Machine. Brick and Tile and Soap Moulding and Printing Machine. Pugmill Hand-lever Brick and Tile Pressing Machine. Otto Gas Engine. Samples of Bricks, Tiles, &c.

675 Manchester Creamery, Anthony Hailwood, Proprietor, Manchester Creamery, Broughton.

Working Dairy, Composed of Machines of the Latest Inventions for Testing Milk. Separting Cream from Milk. Churning Cream into Butter, and separating Butter Milk from Butter.

676 Henry Cæsar, Rustic Works, Knutsford, Cheshire.

Rustic Houses, Arches, Bridges, Porches, Seats, Chairs, Tables, Vases, &c.

677 E. H. Shorland, St. Gabriel's Works, Erskine-street, Manchester, and Imperial Buildings, Ludgate Circus, London, E.C.

Warm Air Generating Manchester Grate, with Front, and Marble Mantelpiece (in action). Warm Air Generating Manchester Grate, with Princess Louise Front and Mantelpiece (in action). Warm Air Generating Manchester Stove, with patent projecting canopy to rise

and fall (in action). Warm Air Generating Manchester Grates and Stoves. Finished Grate Fronts, with Tiled Cheeks. Pair Tiled Slabbed Cheeks. Roof Extract Ventilator. Soil Pipe Ventilator. Chimneybreast Extract Ventilators. Shorland's Patent Vertical Ventilating Tubes. Wrought-iron Carriage Gates. Wrought-iron Four-sided Finials.

678 T. J. Constantine, 61, Fleet-street, London, E.C.

Portable Iron House, in grounds, containing Constantine's newly-improved Patent Treasure Smoke-consuming Cooking Ranges and Stoves, having self-contained flues combined with the Patent Fuel Elevator for raising the fire to the surface under the hot plate. Patent Treasure Cooking Pots and Cooking Utensils.

680 Wm. Wilson & Co., 50, King-street, Manchester.

Patent Eagle Ranges, with iron flues and adjustable firebox, open and closed fire, tiled coverings, tiled mantel. Patent Yorkshire Ranges, with ovens and bath boilers. Patent Yorkshire Ranges, with ovens and boilers. Eagle Grills.

681 R. Halliday & Co., Royal Horticultural Works, Middleton, near Manchester.

Ornamental Conservatory, with Encaustic and Enamelled Tile Ornamentation. Halliday's Patent Adjustable Plant Frame. Halliday's Improved Plant Frame. Halliday's Ordinary Plant Frame. Patent Dry Glazing. Hot Water Boilers.

682 E. C. & J. Keay, Cyclops Works, West Bromwich; and Corporation-street, Birmingham.

Iron Roof, Ornamental Gates, Palisading, Railings, Field Gates, Iron Fencing and Hurdles.

683 Davis and Sneade, Charters-street, Vauxhall-road, Liverpool.

Manufacturers of French Burr and Mill Stones, Rice and Flour Mill Engineers. Millstones for English and Foreign Wheat, Rice, Spice, Seed, Cement, Coprolite, and Manure Grinding. Millstones for Barytes, Paint, and Chemical Grinding.

684 Royal National Lifeboat Institution, 14, John-street, Adelphi, London; Manchester Branch, 9, Albert Square, J. Corbett, hon. sec.

Self-righting Lifeboat of the newest type, 34ft. long, 7ft. 6in. beam, pulling 10 oars, fitted with water-ballast tanks, in addition to an iron keel of 10cwt. and 10cwt. of cork-ballast. Carriage for transporting the lifeboat by land, and for launching it through surf. (N.B. See also Models on Stand 191.)

685 JOHN LYSAGHT, LIMITED, St. Vincents Iron Works, Bristol.

Section of Iron Railway Station suitable for export, and specimen showing the different stages of manufacture from the pig-iron to the galvanised sheet. Wire Netting and other Galvanised Manufactures. Photographs of Constructional Ironworks, Roof Girders, &c.

686 DAVID LOWE & SONS, Gilmore Park, Edinburgh; and Cornbrook, Chester-road, Manchester.

Ornamental Conservatory, 24ft. by 24ft. Garden Frames. Boilers. Garden Seats.

687 THE CROFT GRANITE, BRICK, AND CONCRETE CO., Croft, near Leicester.

Summerhouses in Croft Adamant. Three Summerhouses built of Slabs of Croft Adamant and decorated with mouldings of the same.

688 E. F. BLAKELEY & CO., 27 and 29, Hatton Garden, and Hodson-street, Liverpool.

Ornamental Iron Billiard or Lawn Tennis, &c., Pavilion.

688A ARDEN HILL AND CO., 14, 16, and 18, Constitution Hill, Birmingham.

Gas Cooking Ovens, Coffee Roasters, Boiling Stoves, Lacquering Table, Japanning Oven, Furnaces, Blow-pipes, Laundry Soldering Irons, Water Heaters and Gas Baths, Asbestos Fires, Fire Lighters, and General Hot Water Apparatus.

689 JOHN SMITH, Rustic Works, Stretford.

Rustic Houses.

689A BROWN AND BACKHOUSE, Chatham Works, Chatham-street, Liverpool.

Canadian Toboggan Slide, Stobbs and White's Patent.

SECTION III.

CHEMICAL AND ALLIED INDUSTRIES.

SECTION III.

CHEMICAL AND ALLIED INDUSTRIES.

GROUP I.—CHEMICAL AND CHEMICAL-PHYSICAL APPLIANCES AND APPARATUS.

701 W. H. Bailey & Co., Albion Works, Salford, Manchester.

Hydrochloric Acid Pump, Hargreaves and Robinson's patent. Stop Cocks for hydrochloric acid. Bailey's Patent Semi-fluid Stop Valves. Lead-lined Valves for acids and sours. Bleaching Liquor Pump for raising acids and sours. Regulus Metal Pump for raising acids and chemicals that are injurious to iron and brass. Demerara Steam Pump for raising salt water. Steam Pump for rum and other spirits. Harlech Pattern Steam Pump for ammoniacal liquor for gasworks. Bailey's Steam Air Compressor. Bailey's Patent Pressure Recorder for absorbing columns. Bailey's Patent Pyrometer for blast furnaces. Bailey's Patent Pyrometer for japanners' stoves. Bailey's Patent Pyrometer, army pattern, as used in portable ovens for the army in the field. Bailey's Patent Biscuit Baker's Pyrometer. Bailey's Patent Civil Engineer's Pyrometer. Bailey's Patent Pyrometer for locomotives and marine boilers. Bailey's Patent Confectioner's Pyrometer. Bailey's Patent Pyrometer for Hargreaves and Robinson's process. Carr's Patent Laboratory Mill. Hewitt's Patent Automatic Pestle and Mortar. Bailey's Patent Draught Gauge, indicating the velocity of gases in flues. Drawings of Bailey's Patent Tide Recorder. An assortment of Cocks and Valves, Plugs and Seatings, used in chemical works, gas works, bleach works, and other manufacturing operations. A collection of Apparatus for indicating speed and pressure. A collection of Apparatus used by those engaged in obtaining statistics in manufacturing operations. Bailey's Absolute Vacuum Gauge for showing the vacuum pressure in condensers, and its relation to barometrical pressure of the atmosphere. Bailey's Patent Cement Tester, Eddystone Lighthouse pattern. Thurston's Patent Oil Tester, railway pattern. Ingram and Stapfer's Oil Tester.

702 Doulton & Co., 17, Deansgate, Manchester, and Lambeth Pottery, London.

Acid Pipes, Pumps, Stoneware Taps, from ¼in. to 6in. bore. Retorts, Stills, Receivers, Condensing Worms, Store Jars, Chlorine

Retorts, Unglazed Chemical Pipes for boiling in tar, Specimen of Hydrochloric Pipes which have been in absolute use. Stoneware Jars and Bottles, with patent screw stoppers to 3in. diameter. 24in. diameter Stoneware Pipes, free from iron, for towers. Plumbago and other Crucibles, and Fire-standing Goods.

703 Follows and Bate, Limited, Froxmer Street, Gorton, Manchester.

Edge Runner Mill, with granite rollers 18 × 6, and granite bed 2ft. diameter. Hardwood Hopper, in segments, for mixing and grinding crystals, powders, drugs, pastes, colours, &c. Drug Mill for grinding dry friable materials, such as ginger, gentian, copperas, &c. Powerful Tincture Press, designed so that no part of the material to be operated upon may come in contact with iron or any other metallic substance; size of hopper 9 gallons; pressure of plunger, 6 tons. Small Circular Iron Tincture Press for chemists; size, 1 gallon. Wine Press; size, 65 gallons. Grape Crusher; size of rollers, 29in. × 7in. Assortment of Granite Pestles and Mortars. Assortment of Seltzogenes. Assortment of Hand Power Horizontal Mixers for mixing light powders, liquids, semi-liquids, and soluble compounds.

704 Joseph W. Lovibond, 26, Saint Ann-street, Salisbury, Wilts.

The Tintometer. An apparatus for measuring colour. Arranged in sets, showing its application to glass, fabrics, dyes, malt, beer, wines and spirits, sugars, caramels, carbon in steel, oils, and colours.

705 Joseph Davis, & Co., Fitzroy Works, 6, Kennington Park-road, London, S.E.

Royal Polytechnic and other Barometers, in Classic, Gothic, Early English, composite and fancy pattern frames of various woods. Optical and Scientific Instruments.

706 Adam Millar & Co., 45, Montrose-street, Glasgow.

Insulated Wires, ordinary round section. Insulated Wires, flat or ribbon form, Millar's patent. Insulated Compound Laminated Conductors, formed by combining a number of flat wires so as to produce heavy rectangular conductors, possessing an extra degree of flexibility. Insulated Conductors, with flexible protecting sheath of narrow ribbon wire wound on the outside of the insulating material. Electric Current-Meters, Professor Blyth's patent. Magnetometers for measuring magnetic intensity. Secondary Batteries.

707 Shaw and Connolly, Alexandra Works, Varley-street, Manchester.

Electrical Wires and Cables, including special leads for ship lighting, electric fittings for installations of electric lighting.

708 EDWARD WARD, F.R.M.S , 249, Oxford-street, Manchester.

Microscopes and Appliances for Microscopical Investigation, including apparatus and materials for the collection, preparation, and examination of pond life, entomological and general natural history objects, together with mounted slides, and unmounted specimens; also, photographic apparatus and lantern slides of scientific subjects.

710 HARDEN STAR AND SINCLAIR FIRE APPLIANCE CO., LIMITED, Cathedral Steps, Victoria-street, Manchester.

General Assortment of Fire Appliances, including chemical fire engines, automatic sprinklers, hand fire grenades, fire hose, unions, branch pipes, spreading nozzles, hand pumps, leather buckets, smoke respirators, &c. The new Industrial Light Lucigen, and apparatus for same. The Electrogen, for preventing incrustation and corrosion in steam boilers. Hannay's Deep-sea Sounding Apparatus Bathymeter. Samples of Hannay's Caledonian White Lead.

711 OTTO WOLTERS, 55, Upper Marylebone-street, Portland Place, London, W.

Assay, Chemical, and Bullion Balances. Wolter's Improved Short-beamed Analytical Balances.

712 JOSEPH CASARTELLI, 43, Market-street, Manchester; works, Clarence-street, Cheetham, Manchester.

Transit Theodolites. Ordnance Theodolites. Level, with divided circle for taking horizontal angles. Level, plain, without circle. Y Level, with divided circle. Miner's Dial, Casartelli's patent. Mining Theodolite. Biram's Anemometer. Large and small Dickinson's Anemometers. Improved Airmeters. Engine-divided Circular Protractors. Standard Engineers' Levels. Brass Engineers' Levels. Brass Vertical Levels. Portable Hydraulic Test Pump for boilers. Richard's Indicator. Admiralty Pattern Indicator. Admiralty Pattern Indicator for gas engines. Admiralty Pattern Indicator for high-speed engines. Set Indicator Springs, from 6lb. to 600lb. per square inch. Pressure Test Indicator, for testing steam gauges, &c. Indicator Gear for cylinders up to 3ft. long. Casartelli's Engine Counter, in brass case. Casartelli's Engine Counter, in iron case. Speed Tests. Mercurial Vacuum Gauge, brass case, with door. Vacuum Gauge, without door. Thermometer Gauges for economisers, steam pipes, &c. Casartelli's Pyrometer. Patent Hot-blast Pyrometers, for blast-smelting furnaces, &c. New Microscope Cloth Counting Glasses. Set Folding Cloth Counting Glasses. Set Thermometers, Hydrometers, &c., for brewers' and spirit merchants' use. Set Thermometers for dyers and calico printers. Set Thermometers for chemical purposes. Set Clinical Thermometers. Set Class Hydrometers for chemical and commercial purposes.

713 Franz Muller, Bonn u. Rhine, Germany.

Collection of Aerometers and Thermometers. Apparatus for Volumetric Analysis. Collection of Geissler's Chemical Apparatus. Collection of Geissler Tubes and Crookes Apparatus. Collection of Geissler Glass Stop Cocks. Collection of several New Apparatus made of glass, viz., Brogger's, Norblad's, Petterson's, and Richdorff's.

714 Weldon's Chlorine Processes Co., Limited, 19, Great George-street, Westminster.

Model of Weldon's Chlorine Plant, &c.

715 F. C. Rein & Son, 108, Strand, London.

Acoustic Instruments for deafness. Acoustic Chairs and Model of Acoustic Pulpit. Audiphone. Acoustic Walking Sticks, Conversational Tubes, &c.

716 Committee of Section III.

Collection of Geissler Tubes in Motion.

717 William Allen, Union Brass and Iron Works, Great Ancoats, Manchester.

Filter Press for chemical and sewage purposes. Pumping Engine for general purposes. Improved Acid Egg Valve. W. Allen's Patent Acid Resisting Metal Cocks for chemical purposes. Vitriol and other Valves.

718 Henry Simon, 20, Mount-street, Manchester.

Model of Simon-Carvès Recuperative Coke Oven, narrow oblong chamber, surrounded by longitudinal combustion flues. Model of Simon's Continuous Ammonia Still. Drawings: Sectional drawing of Simon-Carvès Coke Oven, Sulphate of Ammonia Works of Stafford Corporation, Pure Liquid Ammonia Works at Michigan. Samples: Coke and By-Products from Simon-Carvès Ovens; Benzol from Gas; Ammonia Products made by Simon's Apparatus.

719 Rex Bituminous Coal Co., Hulme Lock Wharf, Hulme Hall-road, Manchester.

Improvement in Patent Fuel.

720 Mottershead & Co., 7, Exchange-street, and 10, Half-Moon-street, Manchester.

Chemical and Physical Apparatus for works or private laboratories, schools, science classes, &c.

721 The East Lancashire Chemical Co., Fairfield, near Manchester; and 43, Market-street, Manchester.

Plant for Bleaching Cotton and Linen Yarn and Cloth by the Blanchine Process, dispensing with the use of lime. Samples of Cloth that have been Bleached with Blanchine, and afterwards dyed various colours. Samples of White Goods ready for the market. Starch Substitute for stiffening purposes. Goods that have been stiffened by the same starch substitute. Alizarine White Grounds, Soap, Soluble Oil, Oleine Oil, Glycerine Substitute, Softening Paste, and Sizing Tallow. Patent Bone Size Substitute for fustian goods. Samples of goods that have been stiffened with Patent Bone Size Substitute.

722 John Heywood, Deansgate and Ridgefield, Manchester.

Chemical Laboratory Table, fitted up with the newest and most improved forms of apparatus for the supply of gas and water, with fume closets on table top, tube drawers, and cupboards complete.

722a James Woolley, Sons, & Co., Market-street, Manchester.

Chemical Apparatus and Scientific Instruments used in the demonstration and practical study of chemistry, and in the arts and manufactures; including the newest forms of apparatus for fractional distillations, specific gravities, vapour densities, fat extractions, water, gas, and other analyses, &c.

GROUP II.—HYGIENE.

723 Mottershead & Co., 7, Exchange-street, Manchester.

Benger's Preparations of the Natural Digestive Ferments. Peptonised (partially digested) foods, and peptonising fluids and powders.

724 Burroughs, Wellcome, & Co., Snow Hill Buildings, London, E.C.

Lanoline; a purified wool-fat. Lanoline Pomade. Lanoline Soap. Lanoline Eucalyptine Soap. Lanoline Cold Cream. Lanoline Hoof Ointment.

725 James Woolley, Sons, & Co., Market-street, Manchester; laboratories, Knowsley-street, Cheetham.

Antiseptic Preparations and other Articles for Nursery and Toilet Use. The Sanitary Rose Powder, Phenate of Soda Solution, Perfumery, &c.

726 Mc Dougall Bros., 68, Port-street, Manchester; 10, Mark-lane, London, E.C.; and Irk Vale Chemical Works.

Carbolic and Sulphurous Disinfectants, in powders, fluids, and soaps. Carbolic Acids—various crystal and liquid—for medical and manufacturing purposes. Soluble Disinfecting Powder. Carbolic Purifier or Soluble Phenyle. Carbolic Soaps. Carbolic Fumigator. Sulphurous Fumigator.

727 Morris, Little & Son, Doncaster.

Soluble Phenyle Disinfectant and Deodoriser, prepared from the distillates of coal-tar. Sanitary Phenyle Powder. Phenyle Toilet Soap. Phenyle Household Soap. Phenyle Dog Soap.

728 Winser & Co., Harter-street, Manchester; works, Warrington, Lancashire; mills, Kegworth, Leicestershire; mines, Gotham, Nottinghamshire.

Salufer, antiseptic and disinfectant. Chloride of Zinc. Chloride of Magnesium. Chloride of Barium. Epsom Salts. Glaubers Salts. Alum Cake. Sulphate of Alumina. Sulphate of Lime in different forms. Cements. Rockery Stone. China Clay. Italian and French Chalk. Sulphate of Baryta. Whiting. Ultramarine. Ochre and Umber.

729 F. J. Harrison & Co., Limited; works, Watling-street, and Canning-street, Leicester; London offices, 75 & 76, High Holborn, W.C.

Hydroleine Sanitary Soap Powder; also Hydroleine for wool scourers, woollen manufacturers, dyers, and other trades. Hydrated Soap Powder. Sanitary Disinfecting Powder.

730 Swan and Leach, 3, Princess-street, Albert-square, Manchester.

Jeyes' Sanitary Compounds. Perfect Purifier, Disinfectant Fluid, Sanitary Powder, Disinfectant Household, Toilet, and Poultry Soaps, and Soft Soaps. Non-poisonous Sheep Dip.

GROUP III.—DESTRUCTIVE DISTILLATION.

731 J. C. Siegerist, 41, Faulkner-street, Manchester.

Prepared and Unprepared Colours for Calico Printing and Dyeing (Wool and Cotton), Albumens, Gums, Glycerines, and Sundry Chemicals. Two Frames, containing Print Samples printed with the above-mentioned colours.

732 Brooke, Simpson, and Spiller, Limited, Patentees and Manufacturers of Aniline Colours, Atlas Works, Hackney Wick, London, E.; depôt, 106, Portland-street, Manchester.

Aniline Dyes, and Chemicals from which the same are made. Sundry Dyed and Printed Patterns, on silk and other fabrics, to show various applications of the said dyes.

733 Alfred Parton, 164, Aston Road, Birmingham.

Condensed Aniline Dyes, for marking, printing, &c., in permanent colours.

734 Fahlberg, List, & Co., Saccharine Works, Salbke, Westerhüsen, near Magdeburg.

Saccharine.

735 B. Kühn (agent for L. Durand, and Huguenin, of Basle), 55, Bloom-street, Manchester, and 36, St. Mary-at-Hill, London, E.C.

Aniline Colours for dyeing and printing wool, cotton, silk, &c., with patterns to show the application. Special leather colours with patterns. Salol Anti-rheumatic. Antifibrine for medicinal purposes.

736 The British Alizarine Co., Limited, Silvertown, Victoria Docks, London, E.

Specimens of Anthracene, the raw material used in the production of the colouring matters, Alizarine, Anthrapurpurin, and Flavopurpurin, which are substances employed in the dyeing and printing of cotton and woollen fabrics, yarns, &c. Specimens of the products, illustrating the various stages of manufacture, from Anthracene up to Alizarine, Anthrapurpurin and Flavopurpurin; also Specimens exhibiting the chemical properties of these colouring matters. Specimens of Printed and Dyed Fabrics, Yarns, &c., illustrating the practical application of Alizarine, Anthrapurpurin, and Flavopurpurin. Specimens of Prints, &c., prepared with the products of Madder; also Specimens of the Madder Plant and the various products derived therefrom.

737 Dan Dawson Brothers, Milne Bridge Chemical Works, Huddersfield.

Coal-tar Colours and Chemicals.

738 Manchester Aniline Co. (Chas. Truby & Co.), 55, High-street, Manchester; works, Clifton Junction, near Manchester.

Coal-tar Products and Chemicals for calico printers and dyers.

739 CHARLES LOWE & Co., Manufacturing Chemists, Reddish, near Stockport; and 43, Piccadilly, Manchester.

Carbolic Acid in its various stages of manufacture, from the crude to the pure product, together with resultant by-products, viz., Cresol, Pyro-Cresol, Napthaline, &c. Colouring Matters directly prepared from Carbolic Acid, viz., Picric Acid, Aurine, Azurophenoline, Chrysophenoline, together with Dyed Specimens showing shades obtainable by their use. Medicinal and Disinfecting Preparations of Carbolic Acid, viz., Sulpho-carbolates, Disinfecting Powder and Fluids.

740 SAINT DENIS DYESTUFF AND CHEMICAL CO., LIMITED; works, St. Denis, Paris, France; Manchester office, 3, Booth-street, Mosley-street.

Colouring Matters derived from coal tar and allied products, with specimens of textiles, showing results obtainable upon cotton, wool, and silk, and other animal and vegetable fibres.

EXHIBITS OF CHEMICAL RESEARCH BY

741 SIR HENRY E. ROSCOE, M.P., F.R.S., 64, Queen's Gate, South Kensington, S.W., London; Victoria Park, Manchester.

Collection of Pure Vanadium and Tungsten, with compounds of those rare metals, illustrative of Roscoe's researches. (Roscoe's discovery of Vanadium, in deposits near Alderley and elsewhere, and of methods for preparing compounds, led to the use of Vanadium for printing aniline black.)

741A EDWARD SCHUNCK, Ph.D., F.R.S., Kersal, near Manchester.

Complete collection illustrative of Schunck's researches on the principles contained in Madder. Quercitron and the Cotton Fibre. Chromogens from Lichens, &c. Constituents of Natural Indigo. Colouring Matters and other Compounds from Madder.

741B J. PETER GRIESS, Ph.D., F.R.S. (the discoverer of the Diazo reaction and of the Azo colours), Burton-on-Trent.

Specimens illustrating the discovery of the Diazo and Azo compounds and colours, by Griess.

741C W. H. PERKIN, Ph.D., F.R.S. (the discoverer of the first coal-tar colour, Mauve, and the originator of the coal-tar colour industry), The Chestnuts, Sudbury, Harrow, near London.

Specimens illustrating the discovery of Mauve, the first aniline dye. Specimen of Mauve as first made by Perkin in 1858. Mauveine and its salts. Parasafranine as first obtained by oxidising Mauveine. Sketch of First Coal-Tar Colour Works in 1858. First aniline printing

colour (Acetyl or Perkin's Green). Specimens illustrating the manufacture of Alizarin from Anthracene, by Perkin's (the English) process. Pure Alizarin Compounds. Specimen of Coumarin, the odoriferous principle of Tonka Bean, first artificially prepared by Perkin. Specimen of Cinnamic Acid, first artificially prepared by Perkin, from coal-tar materials, and now used for preparing artificial indigo.

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742 I. Levinstein & Co., Manchester.

Coal-Tar Products. Raw materials, intermediate products, and colouring matters, benzene, toluene, xyleneaniline, toluidine, xylidine, cumidine, methyl and ethyl aniline, diphenylamine, &c., &c., and about 100 different coal-tar dyes, with illustrations of their applications to various kinds of material.

743 Society of Chemical Industry in Basle, Switzerland.

Artificial Colours, Coal-Tar Colours, Aniline, Naphthaline, Resorcine, Anthracene Colours, and various raw and intermediate products.

744 Sadler & Co., Limited, Cleveland Chemical Works, Middlesbrough.

Coal-Tar Products, crude and refined. Alizarine, Aniline, and other Coal-Tar Dyes. Acids, Alkalis, and other Chemicals.

745 Hohenhausen & Co., Yew Tree Chemical Works, 303, Collyhurst-road, Manchester.

Aniline Salt, Aniline Oil, Alizarine Oil, Arseniate, and Binarseniate of Soda, Acetate of Chrome, Sulphocyanide Salts, Fast Black, Fast Chocolate.

746 Hardman and Holdens, Miles Platting, Manchester.

A Collection of Crude and Purified Products illustrating the manufacture of commercial alizarine from coal tar. Specimens of Dyed and Printed Goods, showing the application of alizarine to cotton, silk, wool, &c.

747 Hardman & Co., Manufacturing Chemists, Miles Platting, Manchester.

A collection illustrating the manufacture of useful products from residuals obtained in the manufacture of gas. The exhibit includes crude and purified products obtained from coal tar, ammoniacal liquor, and spent oxide. Model of plant required in some of these manufactures.

748 The Linlithgow Oil Co., Limited, Edinburgh; and 4, St. Ann's Square, Manchester.

Crude Mineral or Shale Oil, Burning Oil, Heavy or Lubricating Oil, Gas or Cleaning Oil, Naphtha (hard scale, 118-120 melting point; soft scale, 90-95 melting point), Sulphate of Ammonia, Refined Paraffin Wax, Still Coke, &c., &c.

749 PRICE'S PATENT CANDLE CO., LIMITED, Belmont Works, Battersea, London, S.W.

Specimens of Cloth and Wool Oils, Lubricating Oils, Price's Glycerine, Stearine, Paraffin.

750 THE BROXBURN OIL CO., LIMITED, 28, Royal Exchange Square, Glasgow.

Bituminous Shale and Products therefrom, including burning oil, lubricating oil, gas oil, paraffin scale, wax, candles, sulphate of ammonia, &c.

751 THE DEE OIL CO., Haworth's Buildings, 5, Cross-street, Manchester, and Saltney-Chester, and London, Liverpool, Newcastle, Barrow.

Lubricating Oils, Cylinder Oils, Valvolines, Medicinal Oils, Vaselines, and Oleum Deelinæ. Wax Candles, and Paraffin Wax.

752 J. C. AND J. FIELD, 15, Upper Lambeth Marsh, London.

Bees Wax, Spermaceti, Stearin, Paraffin and Ozokerit, in block and candles. Domestic and Ornamental Candles and Nightlights of all kinds. United Service, Samphire, and other Toilet Soaps. Pure Oil and other Dyers' Soaps.

GROUP IV.—LAKES, PIGMENTS, PAINTS, AND VARNISHES.

753 RAWLINS AND SON, Brook Works, Rainhill, Prescot.

Specimens of Ultramarine and Smalts, finished and in various stages of manufacture. The Raw Materials used therein, and specimens of manufactured goods illustrating the uses of these pigments.

754 CHARLES SCHEU, 2, Cumberland-street, Manchester, and 65, West Regent-street, Glasgow.

Ultramarine Colours (blue, green, violet). Lime Blue. Model Furnace for manufacturing Ultramarine. Raw materials for making Ultramarine Blue.

755 ROBT. INGHAM CLARK & CO., West Ham Abbey, and Leadenhall House, London, E.C.

A Trophy Collection of the Fossilised Resins used in the manufacture of varnish. Articles illustrating the application of varnishes.

756 WILLIAM PAKEMAN, Manchester-road, Stockport.

Pigment Colours for calico printers. Colours for paper stainers, paper printers, paper manufacturers, lithographers and paint grinders; and all shades of quick drying Enamel Paints, &c. All free from arsenic.

757 Henry Crookes, A.R.S.M., M.S.T.E., 4, Westminster Chambers, London, S.W.

Heat Indicating Paint (Crookes's patent).

758 Jos. B. Freeman & Co., Grove Works, Lombard-road, Battersea, London

Kiosk, painted with Patent Non-poisonous White Lead. Samples of the Lead, and boards painted with it, and subjected to the action of volatile sulphur fumes.

759 Ellam, Jones & Co., Markeaton Mills, Derby.

Emery, Paints, Colours, Barytes, Oxides of Iron, and all Mineral Colours. Varnish.

760 Smith, Powers & Co., Priory Varnish Works, Coventry.

Collection of Varnishes. Specimens of Gums used in the Manufacture of Varnish. Smith and Wildigg's Patent Rotary Bottle Cleaning Machine.

761 Donald Macpherson & Co., Manchester Paint and Colour Works, Knott Mill, Manchester; and 106, Cannon Street, London.

A Kiosk, illustrating the use of Foochow Enamels, Metallic Paints for exterior use, Quick-drying Enamels not needing stoving, Vases, Bricks, and Timber enamelled with Quick-drying Chinese Foochow Enamel.

762 Goadsby & Co.; office, 2, 4, and 6, Albert Bridge; works, Newton Heath, Manchester.

Colours, Paints, Varnishes, Chemicals.

763 Griffiths Brothers & Co., 6, Dashwood House, 9, New Broad-street, London, E.C.

Agnol, washable water paint. Pyrodene Fire-proof Paint, for fire-proofing wood, canvas, &c. Vitros Bath Enamel for enamelling baths, &c., without stoving. Vitros Ordinary Enamel. Griffiths's Patent Zinc White.

764 William Taylor & Co., Limited, Taylor's Wharf, Limehouse, London; Walter R. Taylor & Co., Whitechapel, Liverpool.

Paints, Colours, and Varnishes. Linseed Oils, boiled and refined. Patent Snow-white Zinc Paint. Anti-fouling and Anti-corrosive Compositions for Ships' Bottoms and Submerged Works. Fresco and Enamel Paints. Patent Rubber Paint. Registered Imperial Boiled Drying Oil. Registered Pollox Oil. Magnetic Oxides and Chemicals.

765 JOHN E. WILLIAMS & Co., Victoria Paint Works, Manchester.

Metallic Oxide Paints (non-poisonous), in black, white, and colours. Metallic Oxide Enamels (non-poisonous and quick-drying), in black, white, and colours.

766 THOMAS FEWSTER & SON, 44 and 44½, Sykes-street, Hull.

Varnishes. Varnish Stains. Paints. Colours.

767 R. R. MINTON & Co., Cheapside, Liverpool; and 25 & 27, Bridge-street, Manchester.

Colours, Varnishes, Oils, &c., &c.

768 THE SHEFFIELD VARNISH CO., LIMITED, Oughty Bridge, near Sheffield.

Tubes of various Varnishes. Gums and Oils used in the manufacture of Varnish. Panels Stained and Varnished. Tin and Stone Bottles, labelled and capsuled.

768A F. & C. OSLER, Birmingham and London.

Fluorescent Fountain, playing various coloured waters.

GROUP V.—BLEACHED AND COLOURED FIBRE.

769 JAMES CHADWICK & BROTHER, Eagley Mills, near Bolton.

Sewing, Crochet, Knitting, Mending Cottons, and Wool Mendings, in their various processes of manufacture.

770 J. AND E. WATERS & Co., Manufacturers, Talbot Mills, Ellesmere-street, Hulme, Manchester, and Office, 47, Mosley-street.

Fac-simile of the Albert Memorial, Manchester, in Sewing Cottons. Doubled Yarns—Two, Three, and Six Cord Sewings, on spools, for hand and machine; Glacé Cotton, Crochet Cotton, Knitting Cotton, Ball Cottons, &c. Worsted and Cotton Braids, Smallwares, Worsted and Cotton Webs and Bindings, Boot and Shoe Laces, Corset Laces, Window Lines, Spindle Bandings, &c., &c.

771 ERMEN AND ROBY, Nassau Mills, Patricroft, and 14, College Land, Manchester.

Six Cord and Glacé (Diamond) Sewing Cottons, on spools and on cards. Patent Thread for Shoemakers, Tailors, and Saddlers. Crochet Cotton, in skeins and in balls. Knitting Cotton, Embroidery Cotton, Diamond Thread (polished) for manufacturing.

772 William Oxley, Sewing Cotton and Smallwares Manufacturers, 97, Great Ancoats-street, Manchester.

Various Sewing, Knitting, Mending, and Crochet Cottons, in spools, balls, cocoons, and bundles. Rug Cottons, Cotton Cords. Various Knitting, Mending, and Berlin Wools, in balls, cocoons, and bundles. Mendings, in merinos, cotton, and wool, on cards. Ice Wool in balls.

773 J. & P. Coats, Ferguslie Thread Works, Paisley.

Sewing Cotton is shown in all stages of preparation. The spinning processes are illustrated from the cotton plant to the spun yarn, and the thread manufacture from the spun yarn to the finished spool. Spool making is shown in two series, one of which illustrates the processes from the trunk of a common birch tree to the turned spool, and the other illustrates the various processes from the imported squares of white birch to the completed spool. The case contains a model, built with spools of sewing cotton, of the restored Abbey Church of Paisley.

774 Bagley and Wright, Wellington and Belgrave Mills, Oldham.

Sewing, Crochet, and Knitting Cottons on spools, in balls, and in hanks.

775 Edmund Ashworth and Sons, Egerton Mills, Bolton, Lancashire.

Cotton in the various stages of manufacture. Cop Yarns. Doubled Yarns in 2, 3, 4, 6, and 9 folds. Sewing Cottons. Crochet Cottons in skeins, balls, and on reels. Knitting, Mending, and Embroidering Cottons. Cotton Balls. Linen-finish and Silk-finish Threads.

776 Kerr and Hoegger, Grimshaw-lane Dyeworks, Newton Heath, near Manchester.

Dyed Cotton Yarns. Dyed and Sateened Cotton Yarns. Dyed and Sateened China Grass. Dyed Woollen Yarns.

777 Richard Moir & Co., Adelphi Works, Accrington; office, 24, Corporation-street, Manchester.

Coloured Yarns.

778 Ch. Weber & Co., Thann, Alsace.

Samples of Cotton Yarns dyed in the cops, &c.

779 Select Exhibit of Committee of Section III. Collected by J. J. Hummel, Yorkshire College.

Series of Woollen Patterns dyed with the natural colouring matters (dyewoods), and with the artificial colouring matters (coal-tar colours), also compound shades, dyed with mixtures of three

colouring matters of each class. Series of Patterns of Calico Prints, showing the various styles in vogue during the past 50 years or more, to illustrate the progress of the chemistry of calico-printing during this period. Series of Patterns of Cotton and Silk dyed with coal-tar colours obtained by means of electricity. (Lent by Professor Dr. Goppelsroeder.) Apparatus to show the production of aniline black on cotton, discharge white on indigo blue, &c., by means of electricity. *(Lent by Prof. Dr. Goppelsroeder.)*

780 WILLIAM MCFARLANE, Miller's Brook Dyeworks, Heywood, near Manchester.

Dyed Cotton Yarns, in warp and bundle, including Examples of colours for the "Dhootie," "Khakee," Drill, and general coloured trade. Lace and Lace Yarns.

781 SELECT EXHIBIT OF COMMITTEE OF SECTION III. Collected by Watson Smith, The Owens College, Manchester.

MSS and Relics of Dr. John Dalton, the propounder of the Atomic Theory. Sir Humphry Davy's Chemical Balance, &c. Specimens illustrating Schorlemmer's Researches on the Constituents of American Petroleum, and on the Paraffins; and Dale and Schorlemmer's Researches on Aurin and Pararosaniline, &c. (*Watson Smith*). Specimens of American and Russian Petroleums, also of Crude Anthracene, obtained by passing Russian Petroleum Residues through red-hot tubes, and 20 per cent Alizarin Paste prepared from this Anthracene with piece of printed calico dyed with this Alizarin. Products extracted by Watson Smith from Coal-tar condensed from the Gartsherrie Blast Furnaces. Sulphate of Ammonia obtained from the Crude Condensation Products. Specimens of Bisulphide of Carbon and Ethylic Alcohol, prepared from crude London benzenes, pure aromatic hydrocarbons, &c., contained in coal-tar. One pound each of three varieties of Coal used in mixture in the gas retorts of the Manchester Gas Works. Plans showing the structure of Fire-clay Retorts, setting of Retorts, &c. Parti-coloured Flag, showing exact amount of dyeing power in one pound of Manchester Gas-coal. Actual weighed amounts of products obtained from one ton of Manchester Gas-coal. Specimens of Indophenol, a proposed substitute for indigo, with raw materials, and dyed and printed specimens. Sample of Murexide from Guano, and piece of printed cotton dyed with it. (The discovery of magenta quickly crushed any hopes of introducing this fugitive though beautiful red). Specimens of products of the distillation of wood. Pure Methyl Alcohol from wood spirit as a commercial product. Specimens of Logwood, Red Santal Wood, Indigofera species, and Seeds of Itinctoria, &c. Specimens of raw Jute Fibres, Cotton and Cotton-silks as growing in the pod, &c. (*Dr. Leech*). Set of Cinchona Barks; of Resins; of Seed, Stick and Shel Lac. Chinese Insect-wax. Cocoa-nut. Nutmeg in shell and fruit. Cocaine Plants and Fruit, with active principle. Tamarinds. Theobromine and its preparations. Kola nut. 20 Commercial Gums. Guarana, Lignum-Vitæ, Quassia Wood, and Quassia. Quillaia Bark for making effervescing drinks. Khava-Khava. Other active principles,

barks and fruits. (*Pro. W. Boyd Dawkins*). Specimens illustrating the Phosphate trade, Coprolites, Apatites, &c. Specimen of Australian Boghead Cannel Coal. Specimen of Scottish Boghead Cannel Coal (now exhausted). Specimens of Chalk cut from Cannel Tunnel borings, and illustrating the condition of the chalk strata under the English Channel.

782 HENRY NEWALL & SON, 10, Marsden-street, Manchester.

Mechanical and Chemical Wood Pulps used in the manufacture of paper; also Wood Flour, as used in the manufacture of linoleums, wall decorations, and other fabrics, as well as in the manufacture of explosives, &c.

783 SAMUEL BARLOW & CO., LIMITED, Stakehill Works, Castleton, Manchester; 68, Major-street, Manchester; 1, Three Tuns Passage, Paternoster Square, London, E.C

Madder Bleached Cloth for Calico Printers. Dyed and Finished Cotton Piece Goods, colours fast to light and air. Patent Combined Bookbinders' Cloth, plain, embossed, and brocaded.

784 PETER THOMAS, 75, Princess street, Manchester.

Model of Continuous Cloth Bleaching Machine. Drawing, showing automatic yarn-bleaching machine; Drawing, representing plan of a bleaching machine works; Samples of Cotton, Linen, Jute, in raw, yarn, and woven fabrics, bleached by P. Thomas's process.

GROUP VI.—FINE CHEMICALS, ALKALOIDS, ESSENCES, AND EXTRACTS.

785 JAMES WOOLLEY, SONS, & CO., Manchester; laboratories and drug mills, Knowsley-street, Cheetham.

Chemical and Pharmaceutical Preparations and New Remedies, including Cocain, Antipyrin, Antifebrin, Urethan, Salol, Strophanthus, &c. Specimens of Crude Drugs and Impalpable Powders therefrom. Tasteless Coated Pills. Ointments, levigated by steam power. Oleates, prepared by double decomposition. The Extra Pale Cod Liver Oil, and preparations thereof. Soluble Flavouring Essences and other articles used in the manufacture of Aerated Waters.

786 GRIMSHAW BROTHERS, Canal Chemical Works, Clayton, Manchester.

Solid and Liquid Chloride of Zinc, Sulphate, Oxide, and Sulphide of Zinc, and other Salts of Zinc used in Manufactures, Pharmacy, and Medicine. Materials used in Sizing, Bleaching, and Finishing of

Cotton Warps and Piece Goods. Samples illustrating patent process for the removal of the coating of zinc from galvanized scrap iron, and the utilisation of the iron and the zinc. Samples illustrating the removal of scale from steam boilers. Recovered indiarubber native indiarubber of various kinds. Chemicals, Pigments, and, Drugs used in the manufacture of indiarubber.

787 THOMAS CHRISTY & Co., 25, Lime-street, London, E.C.

A collection of Raw and Manufactured Drugs and their preparations, Menthol Cones, Myocom Fly Gum, Fibres, Guttas, Rubbers, Tanning Barks, &c.

788 E. MERCK, Darmstadt, Germany.

Fine Chemicals.

790 DR. THEODOR SCHUCHARDT, Chemical Works, Goerlitz, Germany.

Chemical Compounds for scientific, medical, and toxological use. 250 compounds.

791 MOTTERSHEAD & Co., 7, Exchange-street, and 10, Half-moon-street, Manchester.

Fine Chemicals for use in medicine and the arts, and in practical and experimental chemistry.

792 HOWARDS & SONS, City Mills, Stratford, E.

Quinine Salts. Pharmaceutical and other chemicals.

793 EDWARD CHARLES CORTIS STANFORD, Glenwood, Dalnuir, Dumbartonshire.

Products from Seaweed.

794 KAY BROTHERS, 7, 9, and 13, Lower Hillgate; laboratory and works, St. Petersgate, Stockport.

Simple and Compound Essences, Extracts, Lozenges and Pills of Linseed, &c. Sapo Lini—Linseed Soap. Sea Water made Potable. Fine Chemical Crystals, Scales, &c. Absorbent and Antiseptic Cotton Wools, viz., Pure Absorbent, Carbolised, Sublimated, Salicylicated, Iodoformed, &c. Glass Valve Tubes (Kay's patent), for Infants' Feeding Bottles, &c. Chemical Disinfectant. Lava, a fusible cement for stone and iron work. Coaguline, a transparent cement for broken articles. Perfumes—Osborne Bouquet, Bramhall Bouquet, English Lavender Water, &c. Syrups—Coffee. Medicinal Extracts and Essences of Ginger, Peppermint, Sarsaparilla, Taraxacum or Dandelion, and Ergot. Medicinal Oils—Cod Liver (Duncan's and Norwegian), Castor, Linseed, Cottonseed, Mustardseed, Sweet Almond, Olive, Sperm, Lard.

GROUP VII.—DYES AND COLOURING MATTERS FROM OTHER SOURCES THAN COAL-TAR.

795 MILLWARD & CRYER, 10, Greenwood-street, Manchester.

Indigo. Model of Producing Factory. Seed, Plant, and classified Samples of Indigo. Specimens of Refined and Extract of Indigo Patterns of Fabrics dyed with Indigo.

796 E. D. MILNES & BRO., Lumn Mills, Bury, Lancashire, and 34, Faulkner-street, Manchester.

Dyewood Extracts, Dyewood Liquors, and other Natural Colouring Matters used in dyeing and calico printing, as well as the Dyewoods and other Raw Materials from which they are obtained. Tannin and Tannic Extracts employed as fixing agents and in the manufacture of leather, together with the Barks, Leaves, Fruits, &c., from which they are prepared. Drysalteries, various.

797 CHARLES DIXON & Co., 86, Randal-street, Blackburn, Lancashire.

Baking, Custard, Egg, and Blancmange Powders. Starch Gloss, Borax Dry Soap, Harness Blacking, Cattle Medicines, Bleached Oils and Colours.

798 BOURGEOIS AINÉ, 31, Rue de Caire, Paris; agent, Alfred Hallam, Post Office, Peel Causeway, Altrincham.

Specialities in fine Colours for designers to calico printers, the industrial arts, and for flowers, in tubes, flakes, powder, batous, and moist. Drawing Materials, Mathematical Instruments, and Designers' Requisites.

GROUP VIII.—METALLURGY.

799 ABRAM COAL Co., Bickershaw, Wigan; and 64, The Albany, Liverpool.

Specimens of Abram New Boghead Cannel, Selected Cannel Pickings, Cannel Nuts, Arley House Coal, Arley Gas Coal, Arley Nuts, Orrel 5ft. Coal, Wigan 5ft. Coal, Wigan 4ft. Coal, Wigan 6ft. Coal, and Abram Main Coal.

800 PERCY C. GILCHRIST, 101, Palace Chambers, Bridge-street, Westminster, S.W.

Steel and Slag made from phosphoric pig-iron, by the Basic or Thomas-Gilchrist process.

801 Cowles Electric Smelting and Aluminium Co., 36, Lombard-street, London, E.C.

Sample ingots of the products of the electric smelting furnace and Cowles process, and various products thereof in crude and manufactured forms.

802 Johnson, Matthey, & Co., Hatton Garden, London.

Platinum Apparatus for concentrating sulphuric acid, and for laboratory purposes.

803 James Smith, 39 and 41, Bridge-street, Manchester.

Gold Leaf, in process of manufacture.

804 Magnesium Metal Co., Patricroft, near Manchester.

Antimony Ore (Oxide). Senarmontite Crystals (Meroxide of Antimony). Antimony Ore (Stibnite). Antimony Metal. Antimony Potassium Tartrate (Tartar Emetic). Antimony Sodium Fluoride. Bismuth Ore. Bismuth Metal. Gold Ore (Quartz). Gold. Magnesium Ore (Magnesium Carbonate). Magnesium Metal. Magnesium Metal Ingots. Magnesium Metal Filings. Magnesium Metal Ribbon. Magnesium Metal Wire. Mercury Ore (Sulphide-Cinnabar). Mercury. Potassium Metal. Silver Ore. Silver Cake. Silver (Granulated). Sodium Metal. Sodium Chlorate. Sodium Hydrate (Caustic Soda). Vanadium Ore. Vanadic Acid. Vanadiate of Ammonia. The New Incandescent Gas Light. Antimony Ores, Metal, and Salts. Bismuth Ores and Metal. Gold Ores and Metal. Magnesium Ore and Metal. Mercury Ore and Metal. Potassium Metal. Silver Ores and Metal. Sodium Metal and Salts. Vanadium Ore and Salts.

805 Joseph Walker Parker & Co., Lead Works, Chester.

Lead Ore. Lead. Products of above, and various manufactures therefrom.

806 Platt Brothers & Co., Limited, Hartford Ironworks, Oldham.

A piece of Mountain Mine Coal. Coke made from Washed Mountain Mine Coal. A piece of Big Mine Coal, from Moston Colliery. Machine-made Facing Bricks. Close Fire Bricks, made from pit shale and clay ground together.

807 Webster's Patent Aluminium Crown Metal Co., 34, St. Mary Axe, London, E.C.

Webster's Patent Metals and Goods Manufactured from them.

808 Duncan McKechnie, Metal Works, St. Helens, Lancashire.

Specimens illustrative of the Wet Copper Extraction Process. Spanish Pyrites, Burnt Pyrites, Purple Ore, Silver Precipitate, Copper Precipitate, &c. Refined Ingot Copper Refined Silver. Sulphate of Copper. Shot Copper.

809 THE MOSTYN COAL AND IRON CO., Mostyn, North Wales.

Samples of Spiegeleisen, Ferromanganese, Silico Spiegel, Silicious Iron, Ferrochromium. Samples of Manganese.

810 HENRY WIGGIN & CO., 55, George-street, Parade, Birmingham.

Specimens of Nickel and Cobalt Ore, and materials exhibiting the process of manufacture from the native mineral to the finished spoon and fork, &c. Specimens of Nickel and Cobalt in various forms, including the Oxides of Cobalt. Specimens of German Silver and other white metals. Samples of Stamped and Raised Metal. Tubes for Ship Fittings and Bar Fittings. Specimens of Harness Furniture and Railway Carriage Fittings in Silveroid, a new white metal. German Silver Wires, &c. Cast Anodes of Nickel and Cobalt for nickel and cobalt plating. Patent wrought Anodes of Nickel and Cobalt and Nickel and Cobalt Salts.

811 WEST CUMBERLAND IRON AND STEEL CO., LIMITED, Workington, Cumberland.

Materials used and products obtained in the Manufacture of Bessemer Pig Iron, Spiegeleisen, Steel Rails, Plates, and Steel Castings.

812 THE COLLEGE OF AGRICULTURE, Downton, near Salisbury.

A Chart exhibiting the effects of Basic Cinder used as a fertiliser. Specimens of Basic Cinder (*a*) before disintegration. Specimens of Cinder (*b*) after disintegration. Specimens of the Basic Lining of Bessemer Converters (Thomas - Gilchrist process). Specimens of Superphosphate of Lime, manufactured from basic cinder. Specimen of Precipitated Phosphate of Lime, manufactured from basic cinder. Specimens of Steel (Thomas - Gilchrist process), from the North-Eastern Steel Works.

813 THE ASTLEY AND TYLDESLEY COAL AND SALT CO., LIMITED, Tyldesley, near Manchester, and Castlefield, Liverpool-road, Manchester.

Sample Blocks of Astley Best House Coal, Hartley House and Gas Coal, Six-Feet Rams Steam Coal, and Great Seven-Feet Bakers' Coal.

GROUP IX.—ALKALIS, ACIDS AND SALTS.

814 JOHN RILEY AND SONS, Hapton Chemical Works, near Accrington.

Chemicals for Bleachers, Finishers, Dyers, and Calico Printers.

815 GASKELL, DEACON AND CO., Widnes.

Samples of the following Chemicals: Bicarbonate of Soda, Caustic Soda, Refined Alkali, Soda Ash, Crystal Carbonate, Bleaching Powder, Chloride of Calcium, and Soda Crystals (Washing Soda).

816 BRUNNER, MOND AND CO. LIMITED, Northwich, Cheshire.

Carbonate of Soda (Pure Alkali, Bleachers' Ash, and other qualities), Soda Crystals, Sesqui-Carbonate of Soda, Bicarbonate of Soda, Caustic Soda, and Bleaching Powder.

817 WIGG BROTHERS AND STEELE, Old Quay, Runcorn.

Vitriol, Salt Cake, Acids, Copper, Pearl Hardening, Bleaching Powder, Paints, with raw materials from which they are manufactured.

818 TENNANTS & CO., 49, Faulkner-street, Manchester; works, Mill Street, Clayton, Manchester.

Oil of Vitriol. Rectified and Brown Muriatic Acid. Nitric Acid. Epsom Salts. Glaubers Salts. Copperas. Sulphate of Copper. Stannate Soda. 40oz. Metallic Tin. Tin Crystals and Solutions. Solid Chloride Zinc. Sulphate of Zinc. Nitrate of Iron. Chloride of Manganese. Bisulphites of Soda and Lime. Bichromates of Potash and Soda. Red and Yellow Prussiate of Potash. Nitrate of Copper Crystals.

819 JOS. C. GAMBLE AND SON, Gerard's Bridge Chemical Works, St. Helens.

Samples showing the various stages in the process of manufacture of—Soda Ash, "purified," Chlorate of Potash; Caustic Soda Ash, Chlorate of Soda; Caustic Soda Cream, Chlorate of Baryta; Bleaching Powder, Chlorate of Strontia; Sulphide of Sodium, and other chlorates.

820 JAMES MUSPRATT & SONS, Liverpool and Widnes.

Soda Ash, Caustic Soda, White Sulphur. Chlorate of Potash, Chloride of Magnesium, Bleaching Powder, Rectified Vitriol, Brown Vitriol, Sulphide of Barium, Chloride of Barium, Sulphide of Zinc, Blanc Fixe, Manganate of Soda, Saltcake 97°, Muriatic Acid, Chlorate of Soda, Hydrate of Baryta Magnesia.

821 JOHN THOM, Birkacre, Chorley, Lancashire.

Process of making Carbonate of Soda.

822 BELL BROTHERS, LIMITED, Middlesbrough.

Samples illustrating the salt deposits and industry of the Tees, and the Schloesing Ammonia-Soda process. Samples illustrating the manufactute of pig iron at the Clarence Iron Works, near Middlesbrough. Samples illustrating the manufacture of Barium on the Tyne.

823 J. M. Collett & Co., High Orchard Works, Gloucester.

Specimens of their Pure Bisulphite of Lime, Bisulphite of Soda, Bisulphite of Potash, and Bisulphite of Magnesia, together with Sulphites of Lime, Potash, Soda, Sulphurous Acid, and their Universal Preservative. Also Isinglass from Russia, Siberia, Hudson Bay, Brazil, West Indies, Penang, Bombay, Kurrachee, China and Manilla.

824 C. B. Cullerne & Co.; office, 36, Cobden-street; Crown Works, Napier-street, Liverpool.

Isinglass, Finings, Bisulphite of Lime, Sulphurous Acid, &c.

825 A. G. Kurtz & Co., Sutton Alkali Works, St. Helens, Lancashire.

Soda Ash. Caustic Soda. Chlorate of Potash. Bleaching Powder. Soda Crystals (Washing Soda).

826 John Howarth Padgett, Brookdale Salt Works, Northwich, Cheshire.

Salts of various qualities.

827 R. & N. Pott, 22, Southwark Bridge-road, London, S.E.

Vinegar, Materials. Models, showing old and new processes of acetification.

828 Anthony K. Kaye & Son, Mold Green Chemical Works, Huddersfield.

Various Chemical Products. Aniline Dyes. One-dip Dyes (Fast). Indigo, and Indigo Products. Dyewoods, and Dyewood Extracts; and general Drysalteries.

829 Peter Spence & Sons, Manchester Alum Works, Manchester; Goole Alum Works, Goole; Peter Spence & Co., Nechells Park Chemical Works, Birmingham.

Colossal Crystal of Alum (quality as used by makers of finest papers, dyers, calico printers, tanners, pottery colour manufacturers, cement makers, &c., &c.). Alum of extreme purity, for Turkey red dyeing (Spence's Turkey Red). Ground Alum, as used in dyeing, calico printing, &c., &c. Spence's Patent Sulphate of Alumina, purest quality, for making red liquor for dyers, sizing paper, &c., &c. Spence's Patent Aluminoferric, for sizing ordinary papers, purifying waters for towns and manufactories, making cloth incombustible, &c., &c. Spence's Patent Alfersil, for Purifying Sewage and other refuse waters, by Spence's Patent. Sulphuric Acid. Hydrochloric Acid. Sulphate of Potash. Sulphate of Ammonia. Alum Octahedra, showing typical form of alum crystal. Spence's International Hydrometer: a standard measurer both of the strength and the specific gravity of solutions and other liquids.

830 THE WIDNES ALKALI CO., LIMITED, Widnes, Lancashire, and 25, Water-street, Liverpool.

White Caustic Soda, Bleaching Powder (Chloride of Lime), Saltcake (Suphate of Soda), Chlorate of Potash, crystallised and powdered. Manganate of Soda, Permanganate of Soda.

831 THE GREENBANK ALKALI WORKS CO., LIMITED, St. Helens, Lancashire.

Pure Chemicals, Double Refined Caustic Soda, Double Refined Caustic Soda, powdered (a specialty for Bleachers, Dyers, &c., and for making pure Hard Soap). Pure Caustic Potash (a specialty for Woollen Manufacturers, for making pure Potash Soaps). Refined Pearl Ashes, Pure Chlorate of Potash, crystals and powder. Chloride of Lime, or Bleaching Powder, of extra strength. Pure Red Oxide of Iron. Pure Red Oxide Paint.

832 R. & J. GARROWAY, Netherfield Chemical Works, Glasgow.

Model of Works. Roll Sulphur. Double Vitriol. Concentrated Vitriol. Unconcentrated Vitriol. Pyrites Vitriol. Engravers' Nitric Acid. Aqua Fortis. Braziers' Aqua Fortis. Marine Acid. Sulphurous Acid. Bisulphate of Lime. Caustic Soda. Soda Ash. Salt Cake. Nitre Cake. Oxalic Acid. Nitrate of Iron. Sulpho-Nitrate of Iron. Nitrate of Copper. Crystals of Tin. Oxy-muriate of Tin. Double Muriate of Tin. Single Muriate of Tin. Pink Salts. Lac Spirits. Alizarine Stannate. Solid Stannate of Soda. Glauber Salts. Epsom Salts. Borax. Boracic Acid. Acetic Acid. Acetate of Lime. Red Liquor. Charcoal. Muriate of Iron. Muriate of Zinc. Feathered Refined Tin, &c., &c. Also Patent Process for Making Sulphuric Acid.

833 W. G. PURSELL & CO., 13, Bernard-street, and 40, Constitution-street, Leith.

Borax in a natural, simple, and compound condition, suitable for various manufacturing, chemical, medical and domestic purposes. Refined Boracic Acid, and a specially-prepared powder for the preservation of fresh fish and other food substances.

834 THE TRUSTEES OF THE LATE JAMES BUCKLEY, Copperas Manufacturers, 108, Higher Ardwick, Manchester.

Crystals of Green Copperas (Sulphate of Iron).

835 H. D. POCHIN & CO., LIMITED, Quay-street, Salford.

Materials for Paper Makers and Calico Printers.

836 THE EUREKA SALT MANUFACTURING CO., LIMITED; works, Northwich, Cheshire; offices, 33, Tower Buildings West, Liverpool.

Rock Salt. Natural Brine, and Manufactured Salt in natural crystals of various kinds.

GROUP X.—FATS, OILS, AND SOAPS.

838 JOSEPH CROSFIELD & SONS, Warrington.

Toilet and Household Soaps.

839 N. KILVERT & SONS, Mark-lane, Manchester.

Packages of Lard, patent grease-proof boxes, and other specialities. Hermetically sealed tins.

840 HENRY SHAW & Co., Chemical Manufacturers, Dukinfield, near Manchester.

Soaps, Blues, and Ultramarines.

841 DAVID THOM & Co., Whit-lane Works, Pendleton.

Soap and small Hand-Stamping Machine.

842 JOSHUA MARGERISON & Co., White Windsor Soap Works, Preston.

Soap Castle. Bust of Queen Victoria. Bust of Prince Albert. Bust of Late President Lincoln, United States of America. Bust of late President Garfield, United States of America. All made from Margerison's White Windsor Soap. Samples of various Soaps.

843 JOHN HIGSON, 72, Victoria-street, Blackburn.

Wart Soap.

844 WILLIAM BROWN, Victoria Soap Co., Limited, 47, Oldham-road, Manchester.

Soaps for silk throwing, spinning and dyeing, cotton sizing and feeding; also prepared soap for cops. Fancy Soaps Fulling and Scouring Soaps. Detergents. Paint Killer. Neutral Carriage Paste. Boiler Compound Wheel Greases.

845 T. B. ROWE & Co., Thames Soap Works, Brentford, London.

White Oil Soap. Refined Curd Soap Bengal Yellow Soap. Brown Oil Soap. Brentford Mottled Soap.

846 JAMES ALEXANDER & Co., 18, Paradise-street, Lambeth, London.

Savon Hamamelis Virginica, or Hazel Soap. The Exhibition and other Soaps.

847 GRAY, SMITH, AND BENNITT, Rockingham Soap and Starch Works, Wath-upon-Dearne, Yorkshire.

Household Soaps, Toilet Soaps, Soft Soaps, Dry Soap, Milling and Scouring Soaps. Starch. Chemicals and Tallows used in the manufacture of the same.

848 Chiswick Soap Co., Chiswick, Middlesex.
Soft Soaps. Oils and Potashes from which they are made.

849 Hazlehurst & Sons, Camden Works, Runcorn.
Household and export Soaps. Glycerine.

850 J. C. Paton & Son, 5, Chatham-street, Piccadilly, Manchester.
Paton's Soap Economiser, or Dry Soap.

851 Geldart & Co., Rathbone-road, Old Swan, Liverpool.
Soft Soap. Blacking.

852 Roy & Co., 5, Brown-street, Red Bank, Manchester.
Household, Toilet, and Manufacturers' Soaps.

853 Bagnall & Co., Red Bank Oil Works, and 22, Bull's Head Chambers, City.
Oils and Greases.

854 Smith and Forrest, Holt Town, Manchester.
Rosin, Mineral Shale, Petroleum, and Coal Tar.

855 Robert Brown & Co., 4, Newton-street, Manchester.
Bar and Soft Soaps for silk, cotton, and wool. Perfumed Eyebright Soaps. Detergent, Paint Solvent, and Brown's Boiler Compound.

856 The Health Soap Co., Soap Manufacturers, Bootle, Liverpool.
Health Soap, and process of manufacture.

857 Frederick Round, Chemist, 10, London-street, Southport.
Pedeline.

858 David Shaw & Co.; works, Clayton, near Manchester; offices, 35, Market-street, Manchester.
Wool, Cloth, and Oleine Oils. Stearine Tallow Greases. Hot-neck, Water, and Cog Wheel. Spindle, Loom, Cylinder, and Engine Oils. Animal, Vegetable, and Fish Oils. Chemical Manures. Bone Sizes and Glues.

859 A. B. Fleming & Co., Limited, Caroline Park, Edinburgh; and 67, Piccadilly, Manchester.
Patent Solidified Oil and Lubricatous Spindle. Loom and Engine Oils. Cylinder and Valve Oil. Colliery Greases. New Mineral fibre, Agalite, rock and ground.

860 JOHN SANDEMAN, Ruchill Oil Works, Maryhill, Glasgow.

Crude Rosin Oils. Refined Rosin Oils. Drying or Siccative Rosin Oil. Rosin Spirit. Rosin Pitch. Mineral Greases.

861 GEO. AND GEO. W. SKELTON, 15, Quay-street, Manchester.

Animal, Vegetable, and Mineral Lubricating Oils, and Tallows.

862 GEORGE FAIRCLOUGH, Green Lane Oil Works, Princess-street, Manchester.

Oils.

863 SENIOR AND BROOKS, LIMITED, Spring Lane Oil and Soap Works, Radcliffe; and Back Pool Fold, Cross-street, Manchester.

Loom, Spindle, Engine, Cylinder, Shafting, and Machinery Oils. Fancy Toilet Soaps. Transparent Glycerine Soap.

864 COLLEDGE ROY & Co., 5, Brown-street and 27, Roger-street, Red Bank, Manchester.

Lubricating Oils and Tallow Greases, and Sizing Tallow and Wax.

865 BROADBENT & SON, India Buildings, 14, Cross-street, Manchester.

Engelbert's Lubricant.

866 J. VEITCH WILSON, HALLIDAY, & Co., Queen-street, Bradford, Manchester.

Specimens of materials used in the preparation of Lubricating Oils. Samples of finished Lubricating Oils. Instruments and Apparatus used in testing lubricants.

867 EDWIN WASHINGTON WOLLASTON, 12, Dutton-street, Manchester.

Samples of Lubricating and Burning Oils.

868 WILLIAM H. SAMUEL & Co., 62, Dale-street, Liverpool; and *Guardian* Buildings, Cross-street, Manchester; works, 13, 15, and 17, Ford-street, Liverpool.

Spindle, Cylinder, Engine, and Axle Oils and Greases.

869 JOSEPH KERSHAW & Co., Hollinwood, near Manchester.

Samples of Non-Conducting Composition, Asbestos Coating, Hair Felt, Asphalte Felt, Asbestos Removable Coating, Wheel and Locomotive Greases, Wire Rope Grease, Engine and Bolton Polishes, Banding Composition, Rope Driving Composition, Red, Black and other coloured Varnishes. Detergent Composition, Soft Soap, White Soft Soap, Printers' and Bleachers' Soap, Fullen Millers' and Domestic Soaps (various).

870 James Light & Son, 11, Rumford-street, Liverpool.

Lubricating Oils, Burning Oils, Tallows, Greases, Sizing Flours, Wool, Engine and Shafting Oils.

871 Robert Oliver & Co., Sharp-street Oil Works, Rochdale-road, Manchester.

Oils and Tallows.

872 Wm. Gossage & Sons; works, Widnes, Lancashire.

Illustration of the History, Chemistry, and Manufacture of ordinary English Soaps. The Chemical Substances employed in soap-making in former times and as now used. Palm Plant, with fruit from which palm oil, as imported from Africa, is made. Raw Palm Oil as imported. Cocoa Nuts, in fibre and without. Coprah, the dried fleshy part of the cocoa nut, from which cocoa-nut oil is expressed. Palm Nuts and Palm Kernels from which palm-kernel oil is made. Cotton Seeds from Egypt, from which cotton oil is produced. Kelp Weed. Kelp Salts, as used by soap makers before the invention of Le Blanc revolutionised the soda manufacture. Soda Ash. Caustic Soda and Soda Crystals. Spent Lye, waste liquor from soap making, the largest source of glycerine. Crude Glycerine. Pure Glycerine, fit for dynamite making. Nitro-glycerine and cases (empty) in which dynamite is usually packed. Silicates of Soda and Potash, both solid and liquid. The principal use for silicate of soda (solution) is for soap manufacture. It is also used largely in the manufacture of artificial stone, and in calico printing. The calico with which this Court is draped has been printed with silicate of soda.

873 Lever Bros., Sunlight Soap Works, Warrington.

Sunlight Soap, with process of stamping the tablets. Practical description by actual illustrations of the methods of using the soap. A complete model to scale, in fibrous plaster, of the Sunlight Soap Works.

GROUP XI.—TANNING.

874 William Walker & Sons, Rose Hill and Bark-street Tanneries, Bolton.

Curried English Strap Butts, dressed whole and in halves. English Shoe and Clog Butts. English Shoulders and Bellies.

875 Henry Parkinson & Co., Tanners, Latchford, near Warrington.

An Oak Bark and Valonia Leather, specially tanned for all hard wear-resisting purposes, such as sole, bucket, hydraulic, and other requirements.

876 Gridley & Co., Bishopsgate Avenue, London.

Russian Isinglass, as taken from the sturgeon. Brazil Isinglass in similar stages. Isinglass of every description, in crude state, from Penang, Bombay, Hudson Bay, West Indies, Saigon, Singapore, and China; also the same kinds in their manufactured condition.

877 Thomas R. B. Bindley & Son, Smethwick, near Birmingham.

Sample Cakes of Gelatines and Glues. Samples of Size and Grease. Specimens of Articles of different trades in which these goods are consumed. Raw materials from which manufactured, and the refuse.

878 James Taylor & Sons, 27, 29, and 31, Union Square, Bury, Lancashire.

Shoe, Clog, and Kip Butts. Sole Bends, English and Foreign. Harness Backs, Black and Brown. Welt Shoulders. Insole Shoulders, Black Bellies and Shoulders. Tanning Extracts: Clarified Oak, Myrabolam, Sumac, Divi-Divi, Valonia, Larch. Tanning Material: Myrobolams, Sumac, Divi, and Valonia.

GROUP XII.—INDIARUBBER, GUTTA PERCHA, &c.

879 David Moseley & Sons, Chapel Field Works, Ardwick, Manchester; warehouses, 2, 4, and 6, New Brown-street, Manchester; 14, Aldermanbury Avenue, London, E.C.; 57, Miller-street, Glasgow; 20, Rue des Marais, Paris; 14, Place Sainte Gudule, Brussels.

Indiarubber for mechanical purposes: Washers, Sheet, Valves, Railway Buffers, Steam Packing, Ball Valves, Bearing Springs, Deckle Straps for Paper Machines. Door Mats. Stair Treads, &c. Indiarubber Tubing for chemical purposes. India rubber Delivery and Suction Hose. Anchor Linen Hose for fire brigades. Simplex Cotton Belt. Vulcanite and Ebonite for electrical and chemical purposes. Patent Coruscus Waterproof Garments. Waterproof Garments of all kinds. Lorne Tobacco Pouches. The New Rex Tennis Balls.

880 J. Mandleberg & Co., Albion Rubber Works, Pendleton, Manchester; 69, High-street, Manchester; 18, St. Paul's Church Yard, London, E.C.; 49, Jamaica-street, Glasgow; 18, Fleet-street, Dublin.

Waterproof Clothing, in various styles and materials. Ventilated Waterproof Clothing. Albion and Embossed Proofing. Waterproof Ponchos and General Indiarubber Manufactures.

881 Broadhurst & Co., Bradford, Manchester.

Indiarubber for mechanical and engineering purposes. Waterproof Garments and Air-proof Goods.

882 The Salford and Irwell Rubber Co., Limited, 110, Fenchurch-street, London, E.C.; works, Mill-street, Ordsall-lane, Salford.

Indiarubber Manufactures.

883 William Currie & Co., Caledonian Rubber Works, Edinburgh.

Indiarubber Manufactures for mechanical purposes. Waterproof Cloths in the piece. Waterproof Clothing. Anglers and Sportsmen's Requisites, Coachbuilders' Furnishings, Door Mats, Tennis Shoe Soles, Golf Balls, &c.

884 Cooper, Box & Co., 7, Love-lane, Wood-street, London, E.C.

The Talethes Waterproof Coats and other Waterproof Garments. Ladies' Waterproof Cloaks; Waterproof Driving Aprons; Waterproof Leggings, &c.

885 Chas. Macintosh & Co., Cambridge-street, Manchester.

Indiarubber, raw and in process of manufacture. Solid Rubber Blocks and Cut Sheet. Sheets. Valves, Cylinders, Washers, Buffers, Belting, Hose Pipe, Mats and Floorcloth. Elastic Thread, Inflated Indiarubber Boat, Waterproof Textures and Garments, Airproof Goods, Ambulance and Life-saving Mattresses, Surgical Goods, Elastic Bands, Tennis and Playing Balls.

887 Bilsland & Co., 99, Princess-street, Edinburgh.

Waterproof Driving, Hunting, and Shooting Coats. Fishing Trousers, Stockings, Boots, and Bags. Air and Water Cushions. Carriage Aprons and Mats. Sponging Baths, Cartridge and Game Bags, Hot Water Bottles, Ladies' Silk and other Waterproofs, Garden Hose, Horse-frog Pads, Decoy Ducks, Lawn Tennis Shoes, Cart Covers, Horse Loin Covers, &c.

888 Isidor Frankenburg, Greengate Rubber and Leather Works, Salford, Manchester.

Raw Rubber, Waterproof Cloth Garments and Rugs, Tennis and Sporting Shoes, Leggings, Laces, and sundry Waterproof and Leather Goods.

889 Edward Watson, 34, South Back, Canongate, Edinburgh.

Indiarubber and Xylonite Articles. Bands, Combs.

890 THE ANCOATS VALE RUBBER CO., LIMITED, Palmerston-street, Ancoats, Manchester.

Vulcanised Indiarubber Thread, Fine-cut Sheet, Thin Spread Sheet, Single and Double Texture Waterproof Garments, Carriage Rugs and Mats, Leggings, Airproof Goods, Card Cloths, Printers' and Lithographic Blankets, Valves, Sheet and Washers for mechanical purposes, Indiarubber Driving Belts, Suction and Delivery Hose Pipes, Gas Tubing. Lawn Tennis and other Playing Balls, Domestic, Surgical, and other Indiarubber articles.

891 THE LAVERINE CHEMICAL CO.; works, Abbey Hey, Gorton; town address, 29, Princess-street, Manchester.

Sea Foam, or light white Artificial Indiarubber. Amber, or hard yellow Artificial Indiarubber. Nigrum Elasticum, or hard black Artificial Indiarubber. Castor, or hard grey Artificial Indiarubber. Powdered white Artificial Indiarubber. Powdered yellow Artificial Indiarubber. Powdered black Artificial Indiarubber.

GROUP XIII.—BUILDING MATERIALS.

892 KNEESHAW, LUPTON & CO., 41, Old Hall-street, Liverpool.

Samples from Llysfaen Quarries. Lime, Limestone, Crushed Chippings and Riddlings, and Limestone Dust. Samples from Port Nant Granite Quarries, near Pwllheli, North Wales. Granite Paving Sets, Breakers, Macadam and Chippings.

893 THURSTONLAND BRICK AND STONE CO., LIMITED, Brockholes, near Huddersfield.

Dark Red Facing Bricks. Light Red Facing Bricks. Imperishable Engineering Bricks. Ornamental Bricks. Machine-dressed, Hard Blue, York Stone, consisting of moulded and plain steps, copings, palisading, stones, flags, &c.

894 GEO. KING HARRISON, The Lye Fire-clay and Brick Works, Stourbridge.

Fire-bricks (burnt and unburnt). Retorts (burnt). Fire-clay, in natural state as raised. Specimens of same after having been subjected to intense heat.

895 THE CROFT GRANITE, BRICK, AND CONCRETE CO., Croft, near Leicester.

Articles for Building, Paving, and Decorating in Croft Adamant. String courses, Panels, Medallions, and other Ornamental mouldings. Paving Slabs, plain and grooved.

896 THOMAS LAWRENCE & SON, Bracknell, Berkshire.

Gauged and Carved Red Brickwork, in the shape of a niche executed with the T. L. B. rubbing bricks, standing on a base built with red pressed facing bricks.

897 WILLIAM MELLOR, Gorton Brook Pottery, Ardwick, Manchester.

Chemical Stoneware Pottery, used in condensing, evaporating, collecting, crystallising, or mixing of chemicals, and consisting of receivers, taps, pipes, mugs, jugs, funnels, test trials, and dishes.

898 EDWARD BROOKE & SONS, Fieldhouse Fireclay Works, Huddersfield.

Silica Fire Bricks. Fireclay Bricks. White and Coloured Glazed Bricks. White and Coloured Glazed Sinks. Salt Glazed Earthenware Cisterns. Glass Furnace Blocks. Glass Tank Boats. Glass Tank Syphons. Gas Retorts. Tuyeres.

899 OTTO TRECHMANN, West Hartlepool.

Model of Dietzsch's Patent Kiln for the continuous burning of cement, limestone, and other materials. Explanatory Drawing of the same. Apparatus for Testing the Tensile Strength, Soundness, Fineness, Setting Time, &c. of Cement. Calcimeter for estimating the amount of Carbonate of Lime in the Slurry. Sundry Sample Specimens of Chalk, Clay, Slurry, Clinker, Portland and other Cements. Briquettes and Standard Sand for testing. Set Cement and Concretes, illustrating the manufacture, testing, and application of Cement.

900 THE GREAT ROCKS LIME AND STONE CO., Dove Holes, near Stockport; works, Peak Forest, Buxton.

Sample of Best Lime. Ordinary Raw Lump Limestone. Crushed Limestone for chemical and other purposes.

901 T. C. BROWN-WESTHEAD, MOORE & CO., Cauldon Place, Staffordshire Potteries.

Specimens of Materials used in the manufacture of China and various kinds of Earthenware.

902 DOULTON & CO., 17, Deansgate, Manchester; and Lambeth Pottery, London.

Stoneware Drain Pipes, Self-Adjusting Joint and Composite Joint Drain Pipes of Lambeth, Rowley Regis, and St. Helens manufacture. Gullie's Interceptors. Patent Channels. Doulton Peto Fireproof Flooring. Patent Silicon Tread. Vitrified Stoneware Sinks. Blue Facing, Paving, and Coping Bricks. Red and Buff Terra Cotta. Lavatories. Slop Sinks. Water Waste Preventors. Double Valve Syphon Waste Preventors. Drop by Drop Flushing Syphons for main and branch drains. Flushing Tanks. Grease

Interceptors, Lavatory Valves, Stop Cocks, &c. Glazed Ware. Slow Combustion Grates and Mantels ; also Radiating Open Tile Stoves for halls, &c.

903 SNEYD COLLIERY AND BRICKWORKS CO. LIMITED, Burslem, Staffordshire.

White and Coloured Enamelled Glazed Bricks, Fire Bricks, and Fire Clay Goods.

904 JOSEPH CLIFF & SONS, Wortley, near Leeds.

Imperial Porcelain Bath and fittings. Roman Bath, with ornamental rolled top panels. Imperial Slop Sinks, Washing Tubs, Kitchen Sinks, &c. White, Coloured, and Ornamental Glazed Bricks, Glazed Brownware Bricks for staircases. Dados to Schools, &c. Faience Panels, Stringcourses, Fenders, &c. Architectural Terra Cotta. Hanging Tiles. White and coloured Channel Bends and Traps for manholes, Patent Traps, Lavatories, Plug Basins, &c.

905 THE TROUTBECK PARK (WESTMORELAND) GREEN SLATE CO., LIMITED, Windermere

Light and Dark Sea-green Roofing Slates.

906 THE ÆSTHETIC ASPHALTE CO., Wellington-terrace, Todmorden ; Virginia-street, Southport ; Hulme Hall-road, Manchester.

Samples of Stansfield's Patent Asphalte for carriage drives, garden paths, or promenades. Also of Stansfield's Patent Laminated Waterproof Asphalte, for covering arches, bridges, mill and other roofs, &c., for carrying or throwing off water.

907 BRUNDRIT & CO., Runcorn, Cheshire.

Specimens of Architectural Work in Runcorn Building Stone. Also, Samples of Paving Sets, Crossings, &c., for road purposes.

908 WILLESDEN PAPER WORKS (The Patent Waterproof Paper and Canvas Co., Limited), Willesden Junction, London, N.W.

Ventilating Shaft of Willesden 4-ply Paper, for mining, and other purposes. Awning, illustrating uses of Willesden Canvas. Tank made of Willesden 4-ply Paper, holding water. Rolls of Willesden Roofing, Willesden Paper, Willesden Rotproof Canvas, and Willesden Rotproof Scrim.

909 CASEBOURNE & CO., LIMITED, West Hartlepool.

Portland Cement, from the raw material to its finished state. Concrete Work. Test Bars. Faijas Cement Testing Machine. Scheibler's Apparatus for the Accurate Quantitative Estimate for Carbonate of Lime. Arnold's Patent Cement Moulder. Sieves and Gauge Glasses for ascertaining fineness of Cement.

GROUP XIV.—SUGAR, GUMS, STARCHES, c.

910 THOMAS CRITCHLEY, 10, King William-street, Blackburn.
Starch Gloss.

911 THEW AND STIEBEL, 65, Sackville-street, Manchester.
Shellac and Gums.

912 E. J. SCOTT, 169, Preston-road, Blackburn.
Potato Products. Farina. Pearl Farina. Potato Barley. Dextrine, or British Gum, white, yellow, and darker shades. Glucose or Grape Sugar, solid, chips, liquid. Crystallised Potato Sugar, Virine. Potato Spirit, various qualities, both refined and unrefined. Products of the Sago Palm. Section and Photo. of the Sago Palm. Raw Sago. Sago in various stages of manufacture. Sago Flour, Sarawack, Sago Flour, Borneo. Small, Medium, and Large Pearl Sago. Tapioca. Tapioca Roots or Bulbs. Tapioca Flour. Tapioca Small Flake. Arrowroot. Indian Corn Starch. Rice Starch. Wheat Starch. Sizing Flours. Muciline. Lancashire Size. Various Prepared Sizes. Raw materials used in the Preparation of Size. Chloride of Magnesium (prime white and English). Chloride of Zinc, solid and liquid. Chloride of Calcium, solid and liquid. Epsom and Glauber's Salts. Prepared Sizing Wax. Storey's Warp Softners. Emolline. China Clay, various qualities. French Chalk. Barytes.

913 H. L. LILLEY & Co., Albert Works, Queen's-road, Manchester.
Rice, Wheat, Maize, and Potatoe Starches. Crystalised, Granulated, and Powdered Rice (or Cold Water) Starch. Specimen Cubes of Starch, showing process of crystalisation. Corn Flour. British Gums.

913A HENRY TATE & SONS, 15, Exchange Buildings, Liverpool; and 21, Mincing Lane, London.
Samples of Crystal Sugars. Cut Loaf Sugar.

914 THE SANKEY SUGAR Co., Earlestown, Lancashire.
Refined Syrup and Black Treacle. Raw Cane Sugars. Samples from the different processes Raw Cane Sugars pass through in Refining. Photographs of Acarus Sacchari, or Sugar Mite.

915 STIFF & Co., Redcliff-street, Bristol.
Starch and other Products from Rice.

GROUP XV.—MISCELLANEOUS.

916 THE WREXHAM LAGER BEER Co., LIMITED; 14, Brown-street, Manchester; brewery, Wrexham.
Lager Beer.

917 WILCOCK & Co., Burmantofts, Leeds.

Constructional Faience Fountain.

918 JOHN JOHNSON & Co., St. Anne's Works, Liverpool.

Plumbago, or Graphite, commonly known as Black Lead, specimens of various qualities and kinds from different parts of the world. Knife-polishing Powder. Laundry Blues, manufactured from the ultramarine of commerce, in various forms. Indigo Blues for laundry purposes.

919 BRYANT AND MAY, LIMITED, Fairfield Works, Bow, London, E.

Specimens of Patent Safety Matches, Wax Vestas, Wax Tapers for gas lighting; Tiger, Ruby, Pearl, Runaway, Elephant, Victoria, and other Household Matches.

919A JEWSBURY AND BROWN, 113, Market-street, and 44, Downing-street, Manchester.

Soda Water, Seltzer Water, Potash Water, Lithia Water, Lithia and Potash Water, Simple Aerated Water, Lemonade, Ginger Ale, Quinine Tonic Water, Aerated Ginger Beer, Champagne Cider, Horehound Beer, in bottles, half-bottles, and syphons. Materials used in the manufacture of mineral waters and aerated beverages. Specimens of Pure English Tin Pipe. Jewsbury & Brown's Oriental Tooth Paste.

920 FREDERICK KING & Co., LIMITED, 26, Waring-street, Belfast, and 6, Bishopsgate Avenue, London.

Edwards' Preserved Potato. A granulated Preparation of the Fresh Potato. Edwards' Desiccated Soup. A dry Preparation of Vegetables and Extract of Beef. Edwards' White (Vegetable) Soup.

921 BRATBY AND HINCHCLIFFE, Sandford-street, Ancoats, Manchester; and 146, Minories, London, E.C.

Essential Oils, Soluble Fruit Essences, Fruit Syrups, and Cordials specially prepared for the mineral water and confectionery trades. Colourings. Citrochloric Acid, a new agent for acidulating aerated beverages. Salts for natural mineral waters. Heading for producing a foam on aerated beverages. Lime Juice.

922 J. BLACKWOOD & Co., 18, Bread-street Hill, London.

Writing and Copying Inks. Sealing Wax. Legend Gum Cement. Jetoline Marking Inks.

923 P. Cochran & Co., 32 and 32a, Cable-street, Liverpool.

Writing and Copying Inks. Liquid Gums and Glue. Specimens of Materials used in Ink Making. Specimens of writing done with P. Cochran & Co.'s. Inks.

924 A. P. Towle & Son, 75, Back Piccadilly, Manchester.

Towle's Chlorodyne. Liquid Chlorodyne. Towle's Chlorodyne Lozenges. Towle's Chlorodyne Jujubes. Thornton's Toilet Cream. Amboline. The Thornton Lotion.

925 William Sharratt, Tower Works, Droylsden, Manchester.

Carbolic Acid. Carbolic Disinfecting Powder. Carbolic Soaps. Chemical Manures. Non-conducting Composition.

926 Morgan, Lomas, & Co., Crumpsall Vale Match Works, Blackley, near Manchester.

Ordinary Household Matches, Ordinary Household Dry Soap, Hoffman's Rice Starch.

927 George E. Davis, 301, Great Clowes-street, Manchester.

Working Drawings of Plant for making Liquor Ammonia. Drawings of Plant for recovering the waste soda from paper mills. Drawings of Kiln for utilising the waste oxide from gas works. Working Drawings of Towers for the recovery of nitre in vitriol works. Working Drawings of new form of Copper Calciner. Working Drawings of Small Burner for producing sulphurous acid. Case of Chemicals illustrating products obtained from coal, products obtained from redonda phosphate and sewage, products obtained from waste paper mill liquors. Samples illustrating the purification of waste water from factories.

928 Burroughs, Wellcome, & Co., Snow Hill Buildings, 67, Holborn Viaduct, London, E.C.

Kepler Extract of Malt. Kepler Solution of Cod Liver Oil in Extract of Malt. Hazeline (a distillate of witch-hazel.) Beef and Iron Wine. Tablets and Tabloids of Compressed Drugs. Strophanthus (African arrow poison, a heart tonic). Digestive Ferments (Zymine, Pepsin, &c.). Pure Terebene. Medicine Chests and Cases fitted with Compressed Drugs, &c.

929 William M. Jowett & Co., 73, and 75, Corporation-street, Manchester.

New Hygienic Cleansable Filter, with movable lining of earthenware, fitted with compressed charcoal block, and bed of granulated charcoal. Filters on the loose charcoal and mineral carbon principle, sealed at top. Filters with charcoal block as filtering medium. Glass filters for rooms. Pocket Filters. Improved Iron Cleansable

High Pressure or Main Service Filter. Improved Patent Self-acting Slate Cistern Filter. Earthernware Cistern Filters to place inside cisterns. Aquariums, Fern Cases, &c. &c.

930 THOMAS ROBERTS, Broom-lane, Levenshulme, Manchester.

Self Cleansing High-pressure Water Filters.

931 JACOB BARSTOW, Filter Works, Pontefract, Yorkshire.

Patent Combination Filters. Domestic Filters. Glass Table Filters. Emigrant, Tourist, and Pocket Filters. Filters for cisterns and large Supply Filters.

932 SLACK AND BROWNLOW, Canning Works, Upper Medlock-street, Manchester.

Compressed Charcoal Filters for general purposes.

933 SILICATED CARBON FILTER Co., Battersea, London, S.W.

Silicated Carbon Self-aerating Movable Block Filters Self-aerating Movable Block Glass Table Filters. Main Supply Filters. Double Cylinder Filters. Silicated Carbon Patent Movable Blocks on Plates for fitting in reservoirs to filter water supply. Pocket and Travelling, Ambulance, and Field Service Filters, &c.

934 WILLIAM NEEDHAM WILKINSON & Co., 1, Hopwood Avenue, Market Place, Manchester.

Water Filters for the pocket. High-pressure Filters for the tap.

935 JOSEPH HALLIDAY & Co., Portland Works, Water-street, Newton, Manchester.

Water Filters, High-pressure and Self-cleansing. Large Filters Self-cleansing Low-pressure Filters for cisterns, and other filters.

936 GEORGE CHEAVIN, Wide Bangate Filter Works, Boston, England.

Removable Plate Water Filters, Rapid Water Filters, Self-acting Cistern Filter, Syphon Filters, Ornamental Filters, Refrigeration Filters.

937 JAMES AND JOSEPH CLAYTON, 139, Higher Cambridge-street, Manchester.

Filtration of Water through natural stone. Cistern Filters. Portable Pocket Filters, &c. All cut from blocks of natural stone and with or without the use of charcoal.

938 LIEBIG'S EXTRACT OF MEAT CO., LIMITED, 9, Fenchurch Avenue, London, E.C.

Extract of Meat. Fray Bentos, Ox Tongues, Corned Beef, Meat Meal for feeding purposes, Manures.

939 EVANS, SONS, & CO., 56, Hanover-street, Liverpool.

Montserrat Lime Fruit Juice, and its Preparations.

940 THE DISTILLERS CO., LIMITED, 12, Torphichen-street, Edinburgh.

A Collection of Grain and Malt Whiskies, London Gin, and other Spirits. Spirits and Whiskies for export in bottle. Squire's Patent Yeast (Balloon brand) for bakers and confectioners.

941 ARCHIBALD LAUDER, 76, Sauchiehall-street, Glasgow.

Whisky. Model of Still used in the distillation of pure malt whisky.

942 LIEBIG'S WINE CO., 12, St. Helens Place, London; and 68, Highfield-street, Liverpool.

Beef Wine, Canadian Extract of Beef, Malt Extract, Health Sweets, Meat and Malt Wine.

943 THE LONDON AND COUNTIES TEA CO., Moulton-street, Strangeways, Manchester.

Tea.

944 JAMES MARSHALL, Ibrox Flour Mills, Glasgow.

Preparation of Wheat, Farola, Semolina, Tritola, Granola, &c. Pure Foods prepared from wheat. Oat Flour, Ptyaloid, a pure digestive of starch in the form of a dry powder.

946 MORGAN AND WRIGHT, 102, High Petergate, York.

Sweet Extract of Chocolate. Dietetic Chocolate. Cocoas in powder. Essence of Coffee. Chocolate Confectionery.

947 JOHN L. JOHNSTON, 10, Trinity Square, Tower Hill, London.

Fluid Beef, Beef Flour, Peptonised Fluid Beef, Fluid Beef Lozenges.

948 HENRI NESTLÉ, 9, Snow Hill, London, E.C.

Milk Food, a compound of milk, wheaten bread, and sugar. Swiss Milk. Condensed Milk.

949 HANNAY & CO., Clowes-street, West Gorton, Manchester.

Plain and Fancy Biscuits and Cakes

949A Co-operative Wholesale Society, Limited, 1, Balloon-street, Manchester; works, Lower Crumpsall.

Biscuits and Sweets.

950 William Beckett, Springfield Works, Heywood, near Manchester.

Fruit Syrups, Non-alcoholic Cordials and Liqueurs, Winterine, Tonic Bitters, Lime Fruit Juice, and other temperance beverages.

951 Pearson & Co., Limited, Cambridge-street, Lower Broughton, Manchester, and Dunster House, Mincing-lane, London.

Raw Chicory and its different processes of manufacture and packing. Raw Coffee and its different processes of roasting and packing.

952 Cornbrook Brewery Co., Limited, Hulme, Manchester.

Beer and Spirits.

953 Benjamin Robinson, Church-street, Pendleton, Manchester.

British Wines. Fruit Cordials and Juices. Soluble Essence of Lemon and Orange Peel. Soluble Essence of Jamaica Ginger. Universal Champagne.

954 Thomas Guest & Co., City Sugar and Confectionery Works, Carruthers-street, Ancoats, Manchester.

Confectionery. Candied Peels. Jams. Boiled Sugars. Bottled Fruits. Syrups. Fancy and Artistic Confectionery. Fondants. Pralines. Comfits. Chocolates. Liquorice. Lozenges. Gum and Gelatine Goods.

PHOTOGRAPHY.

JOHN AMBLER, Queen's Chambers, 7, Market-street, Manchester.

1. "Carmen." 2. Life-size Bust of the late Edward Hecht, Esq. 3. Seymour Jackson, Esq., as Lionel, in the opera of "Martha." Seymour Jackson, Esq., as Thaddeus, in the opera of "The Bohemian Girl." Fred Gordon, Esq., as Count Arnheim, in the opera of "The Bohemian Girl." View in Regent-road Gas Works, Salford.

ANNAN AND SWAN, 7, Devonshire-road, South Lambeth, London, S.W.

Copper-plate Printing Press, in operation, printing Photogravure Plates. 1. Orpheus and Eurydice, from painting by Sir Frederick Leighton, P.R.A. 2. Sailor and Flo, from painting by Gourley Steele, R.S.A. 3. Noble Waldman and Corrin, from painting by Gourley Steele, R.S.A., both pictures belonging to the Queen. 4. March of Montrose, from painting by James A. Aitken. 5. Dr. James Bonar, from painting by George Reid, R.S.A. 6. Fulton, the American engineer who first applied steam as the motive power to sailing vessels, and the earliest inventor of torpedoes. 7. Portrait of the Queen, from drawing by A. S. Cope. 8. Small Prints (various).

AUTOTYPE Co., 74, New Oxford-street, London.

Photographs by the Carbon Collotype and the Autogravure Permanent Processes.

SAMUEL LEE BAPTY, F.R.G.S., 36, Manor-road, Brockley, Kent.

Photographic Enlargements of Microscopic Objects, principally wood sections.

BEDFORD LEMERE & Co., 147, Strand, London.

English Domestic Architecture. Chesterfield House, Mayfair (Lord Burton's) and other interiors and exteriors of mansions.

WILLIAM BEDFORD, 326, Camden-road, London, N.

Framed Landscape Photographs. 1. The Castle and Mill, Warwick. 2. Conway Castle. 3. River Scene, North Wales. 4. At Bettws-y-Coed, North Wales. 5. Valle Crucis, North Wales.

H. B. BERKELEY AND WM. WILLIS, 21, Southampton Row, London.

Platinotype Prints from own Negatives.

L. Berry, Excelsior Studio, Chapel-street, Chorley, Lancashire.

Frame of Photographs, including landscapes, portraits, figure studies, studies of animals, &c. Negatives taken on Gelatine Bromide Plates, and printed in silver, carbon, and on gelatine bromide paper.

Joshua Billcliff, 27, Richmond-street, Boundary-lane, C.-on-M., Manchester.

New Improved Long-focus Cameras, with patent revolving adaptor, and all swings and movements required in photographic cameras. Improved Tripod Stands with folding and sliding leg. Archimedean Studio Camera Stand.

Jas. T. Blair, Whalley House, Whalley Range, Manchester.

One Frame containing the following: 1. The Linn of Dee; 2. Conway Castle; 3. Chee Tor, Millers Dale; 4. Group of Ostriches; 5. Blackpool; 6. Near Bettwys-y-Coed; 7. Gauchos; 8. Where Twines the Way; 9. Weeping Birches; 10. On the Dee, Braemar; 11. Melrose Abbey; 12. Old Mar Castle; 13. View in Borrowdale; 14. Derwentwater; 15. The Seven Sisters, Braemar.

George Bagnall Bradshaw, Artist and Photographer Beech House, Bowdon, Cheshire.

1. Mezzo Enlarged Photograph, Sir Wm. Cunliffe Brooks, Bart., M.P., and Lady Brooks. 2. Mezzo Enlarged Photograph, Lotta, the miniature Neruda. 3. Mezzo Enlarged Photograph, Seymour Jackson, local tenor singer. 4. Mezzo Enlarged Photograph, Fred Gordon, local bass singer.

Warwick Brooks, 350, Oxford-street, Manchester.

1. Direct Portrait. 2. Panel Portraits. 3. Sister Arts.

J. Milman Brown, High-street, Shanklin, Isle of Wight.

Landscape Photographic Studies.

J. E. Bruton, The Abel Lewis Studio, 10, Finch-road, Douglas, Isle of Man.

Frame, containing portraits in silver printing, assorted sizes.

William Joseph Byrne, Richmond, Surrey.

1st Frame—Portraits photographed direct by daylight at sitters' own residences, comprising some of the Vice-presidents of the Exhibition. 2nd Frame—Panel Portraits taken direct, comprising some of the Vice-presidents of the Exhibition, 3rd Frame—Grand Panel Portraits taken direct. 4th Frame—Direct Photographs of different sizes taken in two hours at Viscountess Hood's residence.

Archer Clarke, St. John's Cottage, Wandsworth, London.

Specimens of the various Substances and Chemicals used in making Photographic Dry Plates, samples of Gelatine and Gelatino-Bromide Emulsions in the various stages of Manufacture, also Photos illustrating the above.

John Collier, 66, New-street, Birmingham.

H.R.H. the Prince of Wales and Shooting Party at Bradgate. Sir J. Wm. Dawson, C.M.G,. M.A., F.R.S., President of the British Association, 1886-1887. Sir Thos. Martineau, Kt., thrice Mayor of Birmingham. The Birmingham Art Gallery. James Watt's Work-room at Heathfield Hall, Handsworth. One of Our Boys. Portrait of a Lady, enlarged from carte de visite. Views in the Birmingham streets on the occasion of the Queen's visit, March 23, 1887.

Andrew Ainslie Common, F.R.S. 63, Eaton Rise, Ealing, London.

Enlarged copy of a photograph of the Great Nebula in Orion, taken with a 3ft. reflector, February, 1883.

W. Crooke, 103, Prince's-street, Edinburgh.

Portrait of a Lady, printed on porcelain. Three Portraits of Ladies, platinotype. Portrait of Edward Caird, Esq., platinotype. Portrait of J. Stewart Smith, Esq., platinotype. Portrait of Clark Stanton, Esq., R.S.A., platinotype. Portrait of Henry Doig, Esq., platinotype. Carstairs House, Lanarkshire, platinotype. Portrait of W. E. Lockhart, Esq., R.S.A. (direct from life), plantinotype. A Sikh (direct from life).

"Well by his visage you might know
He was a stalwart knight, and keen,
And had in many a battle been ;
His eyebrow dark, and eye of fire,
Showed spirit proud, and prompt to ire ;
Yet lines of thought upon his cheek
Did deep design and counsel speak."—Marmion.

E. W. Davies, 11, Peel Terrace, Old Trafford.

Series of Views :—1. Conway Castle, North Wales. 2. Aground, Castletown Harbour, Isle of Man. 3. East Towers, Conway Castle, North Wales. 4. Rostherne Church, near Bowdon, Cheshire. 5. On the Tame, Reddish, near Stockport. 6. Menai Bridge, North Wales.

Director-General, Ordnance Survey, Ordnance Survey Office, Southampton.

1. Negative of four $\frac{1}{2500}$ Plans reduced to the scale of six inches to a mile. 2. Platinotype from untouched negative, with examiner's remarks. 3. Photographic Transfer from retouched negative, ready for laying down on zinc. 4. Zincographic Impression of ditto, as published. 5. Negative of Six-inch Sheet, reduced to the scale of

one inch to a mile. 6. Platinotype from untouched negative, with examiner's remarks. 7. Photographic Transfer from retouched negative, ready for laying down on zinc. 8. Zincographic Impression of above as published. 9. Platinotype of Sheet of 31-11-11 of Leicester on the scale of 10ft. to the mile. 10. Photozincograph of Sheet 9-20, Brentford, on the scale of 5ft. to the mile. 11. Selected Views of Jerusalem. 12. Selected Views of Peninsula of Sinai.

HENRY DIXON & SONS, 112, Albany-street, Regent's Park, London.

1. Print from original negative and untouched carbon enlargement, Lion from Zoological Gardens, London. 2. Print from original negative and untouched carbon enlargement, Tiger, from Zoological Gardens, London. 3. Prints from original negatives and untouched carbon enlargements, Lions, Tigers, &c., from Zoological Gardens, London. 4. Ditto ditto. 5. Shoeing the Bay Mare, by Landseer; copied by the Dixon and Gray Orthochromatic Process, in the National Gallery, London (untouched). 6. The Fighting Temeraire, Death of Nelson, and Ulysses Deriding Polyphemus, copied by the Dixon and Gray Orthochromatic Process, in the National Gallery, London (untouched). One of each by the old process, to show the improvement by the new.

EDMUND ECCLES, 15, Broad-street, Bury, Lancashire.

Case of Photographs.

J. EDGE, Photographic Engineer, 380, Stretford-road, Manchester.

Photographic Rolling Press and Burnishers.

J. H. T. ELLERBECK, Donard Lodge, Yew Tree-road, Walton, near Liverpool.

Photographic Views of Norway.

ROBERT FAULKNER, 21, Baker-street, Portman Square, London.

Two Studies of Expression. Portraits of Lilian Pelly, Child and Kitten, and Constance Pelly. Instantaneous Portraits of Children. Daughters of H.R.H. the Princess of Wales. Portrait of a Lady. Simplicity.

SAMUEL FRY & CO., LIMITED Kingston Dry Plate Works, Southsea-road, Kingston-on-Thames.

Direct Enlargements upon Fry's Argentic Bromide Paper and Opals. Also, Argentotype Prints.

J. P. GIBSON, Fore-street, Hexham.

Eight Photographs of Landscapes.

HY. JAS. GODBOLD, 8, Grand Parade, St. Leonards-on-Sea.

Instantaneous Photographs.

J. R. GOTZ, 19, Buckingham-street, Strand, London.

Camera.

SAMUEL GRATRIX, JUN., West Point, Whalley Range, Manchester.

Photographs taken in the winter months. 3 Views of Lodges taken on —Tatton, Esq.'s Estate, Wythenshaw. 2 Views of Hough End Farm, Chorlton-cum-Hardy. 7 Views of House and Ground, Manley Park, near Manchester.

T. A. GREEN, Grasmere, Westmorland.

Four Framed Photographs, printed by the Platinotype process. 1. Langdale Pikes, Westmorland. 2. Near Ferry Nab, Windermere. 3. Study of Cattle. 4. Helvellyn and Fairfield, from Wythburn Head Glyll.

WM. GREENWOOD, 27, Bank Street, Red Bank, Manchester.

Scene in front of Exchange Station on the arrival of Mr. Gladstone in Manchester, June 25th, 1886, taken in one twentieth of a second. The enlargement on Eastman's Bromide Paper.

MRS. ANNIE GREER, 12, Bolton-road, Pendleton, Manchester.

Three Frames of Photographs. Composition Pictures. Study of Heads. Photographs with coloured background.

HADLEY, GEO., 36, Castle Hill, Lincoln.

Two Frames of Photographs.

WALTER H. HARRISON, The Studio, Yarborough-street, Alexandra Park, Manchester.

One Frame: Portrait Studies.

VERNON HEATH, Piccadilly, London.

Carbon Enlargements, principally Landscapes.

A. L. HENDERSON, King William-street, London.

Vitrified Enamels.

HENRY PAUL ET PROSPER, Astronomers, à l'Observatoire de Paris.

1. Photograph of the Cluster in Gemini. 2. Three Photographs of Cygnus. 3. Photograph of a Part of the Moon (Eratosthènes. 4. Photographs of Jupiter. 5. Photograph of a Part of Cassiopea.

J. H. Hogg, 71, Stricklandgate, Kendal.

Frame of Views in Westmorland. Frame of Portraits in Opal. Portraits in Platinotype.

George Houghton & Son, 89, High Holborn, London, W.C.

Photographic Apparatus and Specialities for the Dark Room.

John Ingham, Winton House, Sale, Cheshire.

1. Bromide Enlargement on Porcelain. 2 and 3. Photographs on Porcelain. Permanent: single transfer. 4. Photographs on Porcelain. Permanent: single transfer. 5. Girl and Dog: Bromide Enlargement. 6. Girl and Child: Bromide Enlargement.

G. J. Johnson and I. Watts, Hale, Altrincham.

Photo-Micrographs, enlarged on Bromide Paper.

John Jones, 40, Wellington-street, Moss Side, Manchester.

Four Photographs (Cabinet). 1. Portrait, taken in a garden, silver print. 2. Portrait of my Son, on Eastman's Paper. 3. Residence of the late Councillor Goldschmidt, silver print. 4. Snow Scene in Alexandra Park, on Eastman's Paper.

Richard Keene, All Saints', Derby.

Six Photographs used in Book Illustration. Platinotype.

Paul Lange, Dod's Buildings, 6, Chapel-street, Liverpool.

Instantaneous Photographs Printed in Platinotype. 1. Approaching Storm, Holy Loch, Clyde, Scotland. 2. Cloud Effect, Kirn Shore, Clyde, Scotland. 3. A Strong Breeze, off New Brighton, River Mersey. 4. Scotch Foxhounds.

John W. Leigh, Holly House, Northenden, Manchester.

Lledr Valley: Collodio albumen dry plate. 2. Ditto. 3. Mill on the Machno, do. 4. Pandy Mill Farm, do. 5. Aberandfrach Harbour, do. 6. Chorley Hall, do.

London and County Photographic Co., 63, St. Paul's Churchyard, London.

Various Photographic Views of Old Manchester and the Exhibition.

The London Stereoscopic and Photographic Co., Limited, 108 and 110, Regent-street, London, W., and 54, Cheapside, London, E.C.

Frame of Amateurs' Photographs, taken by Pupils.

J. A. Lugard, 11, Chichester Terrace, Shepherds' Bush, London, W.

A Frame containing examples of a series of 100 Photographs illustrating incidents connected with the Burmah Expeditionary Force, published as an Album, interleaved with Descriptive Notes, by the Author, Lieut.-Col. W. W. Hooper, 4th Prince of Wales's Own, Madras Light Cavalry, late Provost Marshal of the Burmah Expeditionary Force.

Manchester Photographic Society; hon. sec., W. I. Chadwick, Brooklands, Manchester.

Landscape Photography (Amateur).

S. D. McKellen, Spring Gardens, and Marriott's Court; works, 3, Chapman-street, Hulme, Manchester.

Double Pinion Treble Patent Cameras. Patent 3-fold Camgrip Tripod. Patent Developing Rocker. Patent View Funder and Auxiliary Focusser. Patent Instantaneous Shutter. Waterproof and other Cases for carrying apparatus. Lenses for Photographic purposes.

Mrs. Main, 56, Westbourne Terrace, Hyde Park, London.

1. Three Views from the Nadelhorn, printed in silver. 2. Three Engadine Views. 3. Three Views of Frost-covered Trees, printed in Platinotype.

James C. Milner, 67, King-street, Manchester.

1. The Village Mill. 2. Far from the Madding Crowd. 3 Norwegian River Scenery. 4. Bits from Old Ireland.

Thomas Henry Morton, M.D., Don House, Brightside, Sheffield.

1. Suez Canal; Colombo Harbour, Suez; Akyab Town Hall. 2. House in Calcutta; Cemetery at Kyouk, Phyoo; Bungalow; Government School, Phyoo. 3. Wayside Tomb; Golden Pagodas, Akyab; Native Hut; Orectong. 4. Bungalow; Hindoo Temple, Akyab; Interior of ditto; Family Group. 5. Avenue; Buddhist Monastery; Pagodas, Akyab; Christian Church.

James Mudd & Son, 10, St. Ann's Square, Manchester.

1. Enlarged Photograph of Locomotive Engine and Tender. 2. Enlarged Photograph of Crank Axle. 3. Photograph of Locomotive Engines. 4. Photograph of Miscellaneous Machinery. 5. Photograph of Mill.

The Manchester Amateur Photographic Club; E. Openshaw, 24, Ward's Buildings, Manchester.

Moreton Old Hall, near Congleton. Cottage at Biddulph, near Congleton. On the River Wye, Bakewell, Derbyshire. At Thorpe,

Derbyshire. Old Mill, Thorpe, Derbyshire. Dovedale, Derbyshire. Haddon Hall (The Ballroom). Study, in the Woods, Worsley. Study, in the Woods, Worsley. Study, at Ashford-in-the-Waters.

REVD. HENRY JAMES PALMER, M.A., The Vicarage, Christ Church, Ashton-under-Lyne.

1. Framed Photograph of Rouen Cathedral. 2. Framed Photograph of Rheims Cathedral. 3. Framed Photograph of Chartres Cathedral. 4. Framed Photograph of Zermatt and the Matterhorn. 5. Framed Photograph of Cima di Jazzi, Switzerland. 6. Framed Photograph of Monte Rosa, from Macugnaga. 7. Frame containing Twelve Transparencies of Views in Switzerland.

JOHN S. POLLITT, Barlow's Court, 43, Market Street, Manchester.

1. Frame containing Two Interiors in Dunham Hall. 2. Frame containing Two Views of Houses at Bowdon. 3. Frame containing Two Interiors at Hardwick Hall. 4. Frame containing Morton Hall, and Ballroom at Haddon. 5. Frame containing Exterior of Chatsworth House, and Boudoir at Dunham Hall. 6. Frame containing Swans Enlargements on Gelatino (Bromide Paper.)

ALFRED PUMPHREY, 62, Stanhope-street, Birmingham.

Nineteen Transparencies printed on Pumphrey's Lantern Plates.

CHARLES W. AND FRANK N. RAILTON, Alderley Edge, near Manchester.

1. The Rialto, Venice. 2. The Bridge of Sighs, Venice. 3. The Ghetto (or Jews' quarter), across the Grand Canal, Venice. 4. Gardens of the Villa Serbelloni, Lake Como, Italy. 5. Lake Como, Italy. 6. Monte Crocione, Lake Como. 7. Town and Harbour of Zante, one of the Ionian Islands. 8. Old Mill, Alderley, Cheshire. 9. Steam Launch on Canal. INSTANTANEOUS—10. (*a*) Steamer Approaching Pier, Brodick, Arran, N.B. (*b*) Clock Lighthouse on the Clyde, from deck of steamer passing at full speed. (*c*) Sailing Vessel and Tug on the Clyde, N.B., from deck of a steamer passing at full speed. (*d*) Island of Arran, N.B., from deck of steamer passing at full speed. 11. (*a*) The Bridge, Kinloch Rannoch, Perthshire, N.B. (*b*) Villa Serbelloni, Italy. (*c*) Black and White Cottage, A.D. 1687, Alderley, Cheshire. (*d*) Alderley Old Hall, Cheshire.

CHARLES REID, Wishaw, N.B.

Studies of Animals.

H. P. ROBINSON, Great Hall Studio, Tunbridge Wells.

Photograph from Nature, entitled Dawn and Sunset.

ROBERT N. ROSS-MURRAY, Kinnahaird, Strathpeffer, Ross-shire.

Photographic Views of Australian Scenery taken by the wet and dry process.

SANDS AND HUNTER, 20, Cranbourn-street, Leicester Square, London, W.C.

Photographic Cameras for Tourists, Amateurs, and Professionals. Instantaneous Shutters. Portable Folding Tripods. Dark-room Lanterns, and other Photographic Apparatus.

FREDERICK SALIS SCHWABE, Rhodes, Middleton.

Photographic Views of The Alhambra, Tangiers, and Aix-les-Bains.

A. SAUVY, 22A, King-street, Manchester.

A Frame of Direct-taken Photographs.

STANISLAS JULIAN, COUNT OSTROROG "WALERY," 164, Regent-street, London, W.

1. Portrait, nearly life size, of H.M. the Queen. 2 Case of Miniatures on enamelled copper, fixed by fire.

WILLIAM FORD-STANLEY, 13, Railway Approach, London Bridge.

Photographic Cameras, &c.

JAS. HY. STEWARD, 406, 66, and 456, Strand, and 54, Cornhill, London.

Optical Lanterns and Dissolving View Apparatus. The Bridgeman Triple Lantern. Portable Triple Lantern. The Luke Bi-Unial and J. H. Steward's Standard Bi-Unial and Institution Lanterns. New High-pressure Compressed Gas Cylinders and Automatic Gas Pressure Valves. Oxy-ether Lime Light, Beard's Self-centreing Carries and Dissolving View Slides and Effects.

HARRY SYMONDS, 39, High-street, Portsmouth.

Yacht Racing Scenes, taken from a sailing boat.

JAMES SWIFT AND SON, 81, Tottenham Court-road, London, W.

Microscopes, Microscopical Apparatus, Camera Lenses, and General Photographic Apparatus.

J. E. THORNTON, 3, New Lorne-street, Moss Side, Manchester.

Photographic Apparatus. Thornton's Patent Camera. Roller Slide. Shutter. Exhibition Detective Camera. Satchel Detective

Camera. Tripod Stands. Cheap Cameras. Tyler's Metal Slides. Thornton's Patent Automatic Advertiser. Specimens of Enlarged Portraits, by the Patent Air Brush.

JOHN TONGE, Styal, Handforth, near Manchester.

Wild Birds' Nests, photographed from nature, in Styal and Ringway.

HARRY TOLLEY, 9, All Saints-street, Nottingham.

1. Idle Moments, Lowestoft, platinotype 2. Haddon Hall, plainotype. 3. White-robed Nature, Wilford, Notts, bromide prints. 4. A Frosty Walk, Wilford, Notts, bromide prints.

H. DACRE TONGE, Croston Towers, Alderley Edge, Cheshire.

In Frame: Church, Gawsworth, Cheshire; The Rectory, Gawsworth, Cheshire; Church, Gawsworth, Cheshire; Welsh Row, Alderley Edge; Gamekeeper's Cottage, Alderley Edge. Cricket Group, Fettes College, Edinburgh. Instantaneous Photograph of Horse.

WATERLOW & SONS, LIMITED, Finsbury Stationery Works, London, E.C.

Examples of reproduction by modern processes of photographic printing and engraving: (*a*) Collotype Printing. (*b*) Woodbury Printing. (*c*) Photo-relief Blocks for surface printing from line drawings, wash drawings, and negatives from nature.

N. WATSON & SONS, 313, High Holborn, London.

Photographic Cameras, Lenses, and Appurtenances. Watson's New Detective Cameras. Portable Photographic Outfits for Travellers. Watsons Cameras for Micro-Photography. Cameras for Celestial Photography. 4-fold Cyclist's Tripod Stand. Lanterns for Photo-Enlargements. Instantaneous Exposure Shutters. Complete Outfits for Students in Photography. Watson's Patent Dark Slides for Cameras.

G. WEST & SON, Palmerston Road, Southsea, Hants.

Studies of Yacht-racing, photographed from a small sailing boat.

WILLIAM WATTS & SON, 41, South King-street, Manchester.

Patent Adjustable Walking-stick Camera Stand. Ditto, erected full height; do., for hillside; do., lowest elevation.

WEATHERLEY BROS., 4, Bradshawgate, Bolton.

Permanent Carbon Photograph, in Monochrome, of J. M. Rutter, Esq., of Bolton. Oil Painting on Porcelain. Specimens of the new Statuette, Vignette Photographs, and others.

E. Leader Williams, The Oaks, Altrincham.

Three Photographs, enlarged by the Autotype Company, London, from exhibitors' negatives. 1. A Worcestershire Cottage. 2. The Sand Cart, Colwyn Bay. 3. In the Birch Wood.

F. Woodcock, Stanley House, Douglas Head, Douglas, Isle of Man.

Photographs of the Island and Lifeboat.

Matthew Whiting, 190, Lavender Hill, Wandsworth, London.

12 Scotch and English Views.

J. B. B. Wellington, 38, Fellows-road, South Hampstead, London.

Frame of Transparencies for the Lantern made by the Collodio-Bromide process.

SECTION IV.

HANDICRAFTS.

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HANDICRAFTS.

1101 A. G. Thornton, 109, Deansgate, Manchester; works, Sidney-street, Salford.

English Drawing Instruments in process of manufacture. Drawing Instruments. Drawing Boards. T and Set Squares. Parallel Rulers. Mining Dial. Surveying Level, The Premier. Levelling Staves. Steel Scale Tape. Copying Process for reproducing tracings. Specialities in Drawing and Tracing Papers, Cloths, Mounted Paper, Pencils, Colour Slabs, Paper Surface Cleaners, Fasteners, Rules, Scales, &c., &c.

1102 James Higham, 382, Oldham-road, Newton Heath, Manchester.

Patent Circular Knitting Machines and Knitted Hosiery.

1103 M. A. Turner & Co., Sunbury-on-Thames, Middlesex.

Designing for Embroidery, Lace, Braiding, &c. Etching on Textiles. Irish Point and Limerick Lace Making. Embroideries, and Tambour Working. Embroidery Frames.

1104 W. J. Pintner, 3, Bath-street, Lytham.

Specimens of Handmade Lace. Torchon, Maltese, Irish Point, Point de Flandre, Point de Brussels, Point de Venice, Point de Burano, and Point d'Alençon. Thread for Lacemaking.

1105 Wood, (late Abraham,) 17 and 20, Lord-street, Liverpool.

Process of Manufacture of Lenses illustrated. The Standard Test for Eyesight. Optical Instruments.

1106 B. Hembry & Co., 43 and 47, Cross-street, Albert Square, Manchester; 16, Newgate-street, London, E.C.; 33 and 35, North John-street, Liverpool.

Linoleum Floorcloths. Linoleum Wall Decorations, and Patent Stair Nosings. The Process of Linoleum Floorcloth Printing. Samples of the Different Materials used in the Manufacture of Linoleum Floorcloth.

1107 James Foster, 75, Oxford-street, Manchester, and 41, Friargate, Preston.

Knitting Machine, with hand or steam-driving apparatus. One Side Knitting Machine, 31½in., 8 needles. Victoria Knitting Machine. Transparent Pattern Knitting Machines. Union Knitter. Concordia Knitter. Lancashire Knitter. Circular Knitting Machine. Automatic Winder. Seaming Machine. Bordering Machine.

1109 The Waterbury Watch (sales) Company, Limited, 17, Holborn Viaduct, London, E.C.

Waterbury Watches.

1110 John Preston, 1a, Wilton Place, Belgrave Square, London, S.W.

Indian Products and Indian Art Work illustrated.

1111 Antonino Fisichella, Italian Consulate, Liverpool.

Different Specimens of Shell, Stone, and Glass Engraving.

1112 Arthur George Dawson, Castlefield Works, Vincent-street, Macclesfield; and 14, Ivy-lane, Paternoster Row, London, E.C.

The Dawson-Adams Jacquard Pattern or Trial Weaving Apparatus, and Ruling Machinery for the production of design paper and other ruled work.

1113 W. J. Thompson, Indian Bazaar, Saint John, New Brunswick, Canada.

Indian Goods, principally manufactured by the Canadian Indians, with Indians at work, showing how the goods are manufactured.

1114 Samuel Harris Levi, 43, London Wall, and Dutoitspan, South Africa.

Machine, in motion, for cutting Crocidolite, Jasper, Chalcedony, &c.; articles manufactured from the above materials. Machine, in motion, for cutting Diamonds, Amethyst, &c.; articles manufactured from the above materials. Crocidolite and Diamonds in the raw material.

1115 R. E. Eades, 30a, Wharf-road, City-road, London.

Ivory Turning, Carving, and all kinds of Foreign Nuts in process. Lustres, Monuments, Cups, Chessmen, Paperknives, Chandeliers, Pianos, Flower Vases, Brooches, Ear Rings, Lockets, Crosses, Necklets, Scarf Pins, Bracelets, Watch and Ring Stands, &c.

1116 Ollivant & Botsford, 2, Exchange-street, Manchester.

Electro-gilding and plating.

1117 VESSIÈRE AINÉ, Baccarat (Meurthe and Moselle), France.

Artistic Engraving on Glass.

1118 DOULTON & Co., London, Burslem, Rowley Regis, St. Helens, Smethwick, Liverpool, Manchester, Birmingham, and Paris.

Processes of Pottery Manufacture: Throwing, or forming shapes on the wheel. Lathing. Carving, Etching, Modelling, and other methods of decoration on the unburnt ware. Faience decorations on biscuit (terra cotta) ware. Printing from copper plates, and transferring the prints to vases, plates. The Pavilion in which these processes are shown is an archway 15ft. wide and 18ft. high, and above it is a gallery terminated at either end by minarets. On either side of the archway are arcades, through which will be seen the handicrafts above mentioned. The interior is fitted up with cupboards and apparatus employed in the processes shown. Immediately behind the pavilion in an annexe are kilns, erected for the rapid burning of work made or decorated at the Exhibition. One kiln will be used for biscuit firing, two other kilns for glazing and enamelling. The room in front of the kilns contains an engine for driving the potter's wheel and lathe, and in the same room glazing and other processes accessory to the complete firing will be carried on.

1119 W. H. BAILEY & Co., Albion Works, Salford, Manchester.

Bailey's Patent British Empire Clock.—For description see Complimentary List.

1121 JAMES H. MADEN, 11, Thomas-street, Shudehill, Manchester.

Manufacture of English Dolls. Dressing of Dolls in Wool and Stuff Dresses.

1122 JOSEPH LYONS, 60, Brondesbury Villas, Kilburn, London.

Process of grinding and Polishing Lenses for Spectacles and Eyeglasses from Brazilian Pebbles.

1124 LONDON FLOWER GIRL MISSION; John A. Groom, Hon. Supt.; His Excellency the Earl of Aberdeen, K.P., President, 8, Sekforde-street; and 11 and 12, Clerkenwell Close, London, E.C.

Artificial Flowers. Plants. Bridal, Ball, and Presentation Bouquets. Baskets of Flowers. Wreaths, Crosses, &c. Vines and Creeping Plants.

1125 The Committee of the Boys and Girls' Refuges and Homes, Strangeways, Manchester.

Handicraft Work in process of production by inmates of the Institution, consisting of Carpentry, Firewood, Shoemaking, Tailoring.

1126 J. F. & G. Harris, 58, Wilson-street, Finsbury, London, E.C.

Fancy Wood Decorations, made in the form of moulded match boardings of various woods, and relieved by inserting beads of various shapes and colours.

1127 Bailey and Williamson, Designers and Engravers on Wood, 76, Howarth's Buildings, Cross-st., Manchester.

Framed specimens of Wood Engravings, with the different articles used in the business.

1128 Margaret Hodgkins, 5, Beaufort Avenue, Burton-road, Withington, near Manchester.

Skeletonised Leaves, Flowers, Seed Vessels, and Ferns, &c., illustrative of the art of botanical anatomy, as adapted to the study of the science of botany and home decoration.

1129 Karl Ickelheimer, Market Erbach, Bavaria; Agent, James Cugnoni, 44, Ellington-street, Barnsbury, London.

Purse, Bag, and Jewel Case Manufacture.

1130 Howard Trotman, 4, Camden-road, London, N.W.

Lamp Shades, Candle Shades, Stove Ornaments and Screens, Splashers, Decorative Articles and Appliances, and Tools and Machines for the Manufacture of the same. The Process of the Manufacture of Lamp Shades, Screens, &c.

1131 The Self-Winding and Synchronising Clock Co., Limited, 52, Queen Victoria-street, London, E.C.; 65, Victoria-street, Liverpool; and Faulkner-street, Manchester.

Clocks Wound by Electric Motors, and Synchronised by the Electric Current.

1132 L. Courlander, Kimberley, South Africa.

Various Descriptions of Jewellery, and manufacture of same.

1133 Joseph Higham, 127, Strangeways, Manchester.

Electro-plated and Brass Musical Instruments, Flutes, Drums, &c.

1134 Alfred A. Davis, 66, Huntley-street, Tottenham Court-road, London, W.C.

Mechanical, Scientific and Educational Toys, and Fancy Metal Work, Models, Electro-motors, Coils, Cranes, &c. Shown in process of manufacture.

1135 Joseph and Gluckstein (agent, M. Gluckstein, 44, St. George's Place, Albert Gate, London), Victoria West, South Africa.

Cigars, Tobacco, Cigarettes, and Tobacconists' Goods, manufactured chiefly from South African products in the Exhibition.

1136 Guiseppe Guetta, Da Mula's Palace, Murano and Venice.

Process of manufacturing Venetian Beads of all sorts, Spun Glass, Scent Bottles, &c.

1137 William Avery & Son, Headless Cross, Redditch.

Process of Sticking Pins by machinery.

1138 W. Scott Hayward & Co., 59, Deansgate, and 78, Barton Arcade, Manchester.

Process of the manufacture of Jet Jewellery and Ornaments, comprising cameo cutting, carving, engraving, faceting, gashing, grinding, polishing, shagging, and turning. Specimens of Hard English Blue, Yellow, and Burnt Skin Jet, Soft English Jet, Hard Spanish Blue and Yellow Skin Jet, Soft Spanish Jet.

1139 Annie Belt. 20, Milton-street, West Hartlepool.

Mirrors, Brackets, Plaques, Banneretts, Jubilee Cards, &c., in leather and gutta percha work.

1140 The City Wood Engraving Co. (Farrell and Jepson), Arcade Chambers, St. Mary's Gate, Manchester.

Specimens of Drawing and Engraving on wood. Photography and Electrotyping. Engravings in progress. Men in actual work upon engravings. Wood Engraving Machine.

IRISH SECTION.

Irish Section.

1151 John S. Brown & Sons, 12, Bedford-street, Belfast; 26, Gresham-street, London; 116, Franklin-street, New York.

Damask Table Linen. Linen Sheetings. Linen Cambric Handkerchiefs, plain, hem-stitched, embroidered, and printed. Shirting Linens. Towels and Towelling. Birdseye and Russian Diapers. Embroideries on linen goods. Hand-made Linen Buttons. Flax in various stages of manufacture.

1152 Smythe & Co., Balbriggan; 37, Lower Abbey-street, Dublin; 3 and 4, Milk-street, London, E.C.

Ladies' Cotton, Cashmere, and Merino Hose. Gentlemen's Cotton, Cashmere, and Merino Half-hose.

1153 Frederick Wm. Hayes & Co., Seapatrick Mills, Banbridge, Ireland.

Linen Threads for hand or machine use. Harness Cords for looms. Cotton Threads for shoe work, &c. Line and Tow Yarns. Samples of Flax Straw, and Flax, rough and dressed.

1154 Abraham Wilson and Armagh Spinning Co., Edward-street Mill, Newry; Drumcairne Mill, Armagh.

Flax and Tow Yarns. Flax and Tow in process of manufacture. Flax and Dressed Line. Linen Threads.

1155 Brookfield Linen Co., Limited, 30, Donegall-street, Belfast, and Brookfield, Belfast.

Bleached Linens. Linen Diapers, Huckabacks, and Drills. Cream and Rough Brown Linens. Striped and Checked Rough Brown Linen Drills. Plain, Striped, and Checked Linen Glass Towels. Bordered, Lettered, Striped, and Checked Linen Glass Cloth, in piece. Striped and Checked Dyed Linen Hollands, Brown, Black, Slate, Chocolate, &c. Linen Canvas, Brown, Black, White, Slate, Chocolate, &c. Costume Linens, Brown, Fancy, and Indigo Dyed. Linen Crash, Brown and Bleached. Linen Huckaback and Damask Towels, plain and fancy borders and fringes. Linen Cambric Handkerchiefs, hem-stitched and bordered. Damask and Damask Napkins.

1156 J. and L. F. Goodbody, Clara, King's Co. Ireland.

Sacks and Sacking. Tarpaulins. Brattice Cloths. Hop Pocketing. Baling Cloth. Jute Yarns and Twines. Packing Cord and Ropes.

1157 CORMICK CANNON, The Glenties, Co. Donegall, Ireland.

Home-spun and Hand-made Grey Tweed. Home-spun and Hand-made Grey Frieze. Home-spun and Hand-made Milled Tweed (grey). Home-spun and Hand-made White Flannel.

1158 CHARLES JOHN MAYBURY, Ashgrove Woollen Factory, Kenmare.

Kenmare Woollen Tweeds.

1159 THE CONVOY WOOLLEN CO., Convoy Raphoe, Co. Donegall.

Ladies' and Gentlemen's Serge, Gents' Heavy Tweeds, Gents' Light or Donegall Tweeds, Travelling Rugs, Wrap Shawls, Horse Covers, Flannel, Plaiden, and Shirting. Hosiery and Yarn.

1160 HILL & SONS, Lucan and Blue Bell Woollen Factories, Co. Dublin.

Irish Friezes, Tweeds, and Serges.

1161 ATHLONE WOOLLEN MILLS CO. Gleeson Smith & Co., Shannon and Burnbrook Mills, Athlone, Ireland.

Irish Tweeds. Shannon Tweeds. Connemara Tweeds. Cheviot Tweeds. Saxony Tweeds. Pure Irish Wool Serges. Irish Dress Goods. Pure Irish Wool Friezes. Shannon Fingerings.

1162 COUNTY DOWN FLAX SPINNING AND WEAVING CO., LIMITED, Loop Bridge, Co. Down; and 1, 2, 3, 4, Donegall Square, Belfast.

Piece Goods, Handkerchiefs, Towels, &c.

1163 DWYER & CO., LIMITED, 24 and 25, Great Georges-street, Cork.

Irish Hand-worked Crochet Lace. Royal Jubilee Lace.

1164 C. &. J. O'SULLIVAN, Cork.

Manufactured Curled Hair in Rope, and teased ready for upholstery purposes. Hair in the raw state. Bed Feathers and Downs washed and purified. Feathers in the raw or unmanufactured state.

1165 SAMUEL R. GREER & CO., Court-street Factory, Newtownards, Co. Down.

Boys' Knitted Suits. Boys' Hose and Half Hose. Ladies and Children's Hose. Men's Hose and Half Hose. Men's Cardigan Jackets. Ladies' Inside Vests. Ladies' Outside Jerseys. Tam-o'-Shanter Hats. Ladies' Knitted Hats. Children's and Girls' Costumes Knitted.

1166 Booth and Fox, Cork; 81 Hatton Garden, London; Mark-lane, Manchester.

Down Quilts and Down Clothing. Purified Feathers for Bedding. Curled Hair for Upholstering.

1167 Pim Bros., Limited, South Great Georges-street, Dublin.

Boys', Youths', and Men's Suits. Manufactured from Irish Tweeds.

1168 Women's Industries.

(1) Superioress, Presentation Convent, Youghal.—Needlepoint Lace Border. Fan Cover in Youghal Lace. Needlepoint Lace Lappet. Needlepoint Lace Pocket Handkerchiefs.

(2) Ursuline Convent, Cork.—Baby's Dress, Guipure Lace. Fine Lace. Lace D'Oyleys. Pincushion. Spanish Set. Long Lace Collar. Lace.

(3) Mrs. Hall Dare, Newtownbarry, Co. Wexford.—Tea-cloth Italian Reticula. Broad Insertion (not for sale). Insertion.

(4) Sisters of Charity, Asylum for the Blind, Merion.—Lace Flounce.

(5) Mrs Burke, Omer, Headford, Co. Galway.—Headford Lace.

(6) Convent of Poor Clares, Kenmare, Co. Kerry.—Fan, Irish needlepoint lace. Handkerchief, Irish needlepoint lace. Furniture Trimming. Flounce, in linen thread. Photographs of Lace and Designs.

(7) Carmelite Convent, New Ross, Wexford.—Border Needlepoint Lace. Handkerchief Needlepoint. Border. Crochet Collars. Crochet Borders.

(8) Presentation Convent, Killarney.—Yellow Silk Lace. Reticella Lace. Pocket Handkerchief. Reticella Squares. Nettled Lace Specimen. Nettled Black Lace (silk). D'Oyleys.

(9) Mrs. Power Lalor, Longorchard, Templemore.—Parsonstown Lace Flounce. Parsonstown Lace Scarf. Parsonstown Lace Trimming. Parsonstown Lace Handkerchief. Birr Lace Handkerchiefs. Specimen Venetian Point. Specimen Trimming. Cap. Corsage. Carrickmacross Guipure Frock. Carrickmacross Applique Robe. Specimen Applique Lace. Guipure Handkerchief. Applique Christening Veil. Applique Scarf. Needlepoint Lappet. Communion Set. Specimens Needlepoint. Cap. Collar and Cuffs Needlepoint. Needlepoint Fichu. Black Limerick Lace Scarf. Black Limerick Dress and Trimmings. White Limerick Dress and Trimmings. Reticella Tea Cloths. Crochet Robe. Crochet Pincushion Cover. Crochet Mantel Border. Strip for Counterpane. Crochet Trimming. Very Fine Crochet. Moorish Point Collar and Cuffs. Pincushion Covers. Moorish Point. Moorish Trimming. Wide, Medium, and Narrow Torchon Flax Lace. Piece of Crochet Work.

(21) The Royal Irish School of Art Needlework Company Limited, 23, Clare-street, Dublin.—Panel. Primrose Set, A.B.C. Blotter. Table Cloths. Glove Case. Carved Coal Box. Carved Wood Casket. Carved Frames. Carved Bellows.

(22) Miss Mary Mitchell, Castle Fleming Errill, Ballybrophy, Queen's County.—Toilet Cover, Mountmellick work. Chemise, plain needlework.

(23) Viscountess de Vesci, Abbeyleix, Queen's County.—Specimens of Carving. Toilet Cover. Pocket Handkerchief. Mitts. Grey Gloves. Coloured Gloves.

(24) James Crosbie, Bangor, County Down.—Embroidered Pillow Cover. Pillow to show cover. Embroidered Pincushion complete. Embroidered Nightdress Case. Handkerchief Letters, Monogram, &c.

(25) Mrs. Power Lalor, Long Orchard, Templemore.—Coverlet, Mountmellick Embroidery. Sheet Sham. Pillow Sham. Strip Red Glencolombkill Embroidery. Strips, white, red, and blue. Tea Cosy Sides. Satin Painted d'Oyleys. Satin Painted Pincushions. Embroidered Gloves. Tea Cloths. Leek Embroidery. Lawn Tennis Dresses, embroidered red.

(26) Pauline Costello, 1, Russel Place, Dublin.—Plush Mantel Border, with curtains embroidered. Cushion.

(27) Mrs. M. S. Egan.—60, Eccles-street, and R.I.C. Barracks, Dublin.—Sprawl Cushion, in Oriental embroidery. Sofa Bolster, richly worked.

(28) Irish Association for Training and Employment of Women, 21, Kildare-street, Dublin.—Photographs. Frame, specimen of wood engraving. China Plaques, viz., "Gioconda" (original), and "Lorenzo" (original). Specimens of Illuminating. Illuminated Borders in five frames. Illuminated Address. Illuminated Title, and frame, showing progress made by pupil in three months in a class meeting once a week. Pieces of Wood Carving, viz., Bunch of Hops, a study in rough carving. Walnut top of Bellows Celtic Carving. Panel, with grotesque head in centre. Oak Stool. Photo Frame (ivy). Specimens of Scrivenery, Engrossed Mortgages. Engrossment and Fair Copy of Conveyance. Fair Copy of Surrender of Lease. Specimens of Plan Tracing, viz., Elevation of Museum, and Elevation of Public Library, Belfast.

(29) Mrs. J. W. Sinclair, Bonny Glen, Inver, Donegall.—Piece Embroidery on Cotton Tapestry. Banner Screen on Satin Cloth. Pillow Shams. Red Gauze Handkerchief. Pincushion Covers. Pincushion Covers (Mrs. Harvey). White Gauze Handkerchief Embroidery. Primroses, heliotrope colour. Cambric Pocket Handkerchiefs. Silk Handkerchiefs. Pincushion. Nightdress (American) Trimming. Child's Dress, white flannel.

(30) Mrs. Dease, Turbotstown, Coole, West Meath.—Embroidered Crape Chair Backs. Embroidered Coloured Linen Aprons. Diagonal Cloth Tablecover. Holland Tablecover. Red Applique on Diagonal Cloth. Blue and White Linen Chair Back. Red Linen Embroidered Chair Back.

(31) Mrs. Bagwell, Marlfield, Clonmell. — Nightgowns. Pair Drawers. Aprons. Child's Worked Frocks. Pillow Slips, worked.

(32) Mrs. Power Lalor, Long Orchard, Templemore.—Silk Vest, hand made. Nightdress. Chemises. Pairs of Drawers. Baby's Flannel Shawl. Baby's Shirt. Gentlemen's Shirts, embroidered. Children's Chemises. Children's Drawers. Flannel Jacket. Flannel Petticoat. Smocks. Monthly Gown. White Knitted Shawl. Pink Knitted Shawl. Child's Petticoat (crochet). Opera Wrap. Baby's Reversible Jacket. Knitted Hunting Gloves. Cape. Knitted Petticoat. Cloud. Painted Glasses. Baby's Boots. Knitted Vest.

(33) Miss Mary McDonough, Rosscahill, Galway, Ireland.—White Knitted Shawl.

(34) Margaret Cree, Rosemount, Blackrock, Dublin.—Knitted Cotton Quilt.

(35) Alicia M. Young, Dunmanway, Co. Cork.—Small size Hand-knit Quilt.

(36) Miss Hamilton, 63, Fitzroy Avenue, Belfast.—Scarlet Hand-knitted Lady's Combination. Scarlet Hand-knitted Lady's Bodice.

(37) Miss Burke (in trust), Shamrock Lawn, Douglas, Cork.—Hand-knitted Wraps. Hand-knitted Gloves.

(38) Miss Frances Fitzgerald, Glanleam, Valencia Island.—Man's Jersey, blue. Boys' Jersey, white. Socks. Shooting Stockings. Women's Stockings, merino, fingering, two-yarn. Gloves, fancy, black, white, merino, and children's.

(39) Mrs. A. P. Stokes, Hon. Sec. Industrial Association, Mountmellick.—Table Cloth. Toilet Cover. Pillow Sham. Sacs de Nuit. Brush Bags. Set Mats. Cheese Mats. Baby's Bibs. Five o'clock. Tennis Apron. Bed Pocket.

(40) Miss A. M. J. B. Hackett, 117, Leinster Road, Rathmines, Dublin.—Mountmellick Work Toilet Cover, worked with white cotton, on white sateen, trimmed with fringe. Mountmellick Nightdress Bag, worked with white cotton, on white sateen, trimmed with fringe. Mountmellick Brush and Comb Bag, worked with white cotton, on white sateen, trimmed with fringe.

(41) Miss Scott, Castlefin.—Nightgown, real Valenciennes lace. Chemise. Drawers. Nightdress, in Torchon lace. Chemise. Knicker Drawers. Nightdress, in real Valenciennes lace. Knickers. Child's Pinafore. Jubilee Set, machine-made, containing Nightdress and Chemise.

(42) Miss Scott.—Nightdresses. Combination. Chemise.

(43) The Sisters of Charity Asylum for Blind Mission.—Combination. Nightgown. Chemise.

(44) Dungarvan Industrial Association, Dungarvan.—Specimens Macramé. Stockings. Caps. Socks. Jersey. Mittens.

(45) Dorothea Roberts, 5, Queen's Gate Place, London, S.W.—Plain Socks.

(46) Mrs. Gore Cuthbert, Reuss, Blackrock.—Hand Embroidered Child's Dress. Boy's Boating Jersey. Crochet Jacket. Baby's Boots. Hand-embroidered Handkerchief (not to be sold). Muffler, new style, first of the pattern. Traveller's Hand-knitted Helmet (Irsh Wool). Comb and Brush Bag, Jubilee design. Shoes from Achill Island. Macramé Lace.

(47) Countess of Rosse, Birr Castle, Parsonstown.—Knitted Socks. Variegated Knitted Gloves. Soft Brown Variegated Gloves. Plain Gloves. Leather-lined Gloves. Children's Plain Gloves.

(48) Miss Sarah St. John, Derrynasura, Mountrath.—Hair Brooches Bracelets (hair).

(49) The Sisters of Charity, Asylum for Blind, Merrion.—Child's Dress. Knitted Petticoat. Gaiters. Silk Stockings. Lace Stockings. Socks. Gloves.

(50) Miss Barrett, 6, De Vesci Terrace, Kingstown.—Cards. Shamrocks, mounted. Box of Pressed Seaweeds, Shamrocks, &c. Mat, with crest.

(51) Miss Roberts, 5, Queen's Gate Place.—Helmets for Sailors. Clerical Socks. Child's Under Dress. Children's Black Stockings. Knitted Gloves. Angola Socks. Various Gloves. Mittens. Silk Socks. Boy's Stockings. Child's Fingerless Gloves. Fingering Stockings. Shooting Stockings. Fine Socks. Jerseys. Wheeling Socks. Children's Stockings. Lambs Wool Socks. Angola and Wool.

(52) Miss Augusta Jane Goold, Athea, Glin, Co. Limerick.—Socks. Knicker Stockings. Hand-knit Stockings.

(53) Mrs. O'Hara, Raheen, Gort.—Frieze. Madder Flannel. Bags, containing Flannel, &c.

(54) Mrs. T. U. Edgeworth, Ardglass, Rathowen, Edgeworthstown.—Mantel Borders, painted and designed in oil colours by Mrs. Edgeworth, with curtains to match.

(55) Annie H. Preston, St. John's, Enniscorthy, Co. Wexford.—Terra Cotta, for fairy lights to stand in. Terra Cotta, Guelder Rose (wild). Terra Cotta Vase, Anemone Japonica. Terra Cotta Water Lily. Terra Cotta Vase, Jasmine (purple). Terra Cotta Ornamental Flower Pots, for dinner table, different shapes for ferns to grow in.

(56) Presentation Convent, Killarney.—Sun Flower Border. Sun Flower, on white satin. Quilt, Appliqué Pattern. Border, Appliqué.

1169 PIM BROS., LIMITED, South Great Georges-street, Dublin,

Hand-knitted Shooting Stockings, and Gents' Half Hose, knitted by the Irish peasantry. Art Crochet Work and Hand Knitting. Ladies' Wool Petticoats, Wool Shawls, and Fancy Wool Work. The designs are supplied by native artists, and all manufactured in Ireland.

1170 WILLIAM GRAHAM, 4, Grafton-street, Dublin

Gentlemen's Hand-made Silk and Felt Hats. Ladies' and Youths' Silk, Velvet, and Tweed Hats and Caps.

1171 MURPHY & ORR, 18, Donegall-street, Belfast.

Linen and Silk Damask Table Cloth, Jubilee design. Linen and Silk Tea Cloths.

1172 THE KNITTING FACTORY, Tipperary, Co. Tipperary.

Socks, Stockings, Scarfs, Caps, &c.

1173 TILLIE AND HENDERSON, Foyle Factory, Londonderry; 19, Silver-street, London, E.C.; and 39, Miller-street, Glasgow.

White Regatta, Oxford, Wool, and Silk Shirts. Collars. Ladies' Underclothing and Baby Linen. Ladies' Corsets.

1174 J. N. RICHARDSON, SONS, & OWDEN, LIMITED, 1, Donegall Square, North Belfast.

Fronting and Shirting Linens, medium and fine qualities. Sheetings. Pillow Linens. Diapers. Lawns. Cambric-bordered and hem-stitched Handkerchiefs. Scalloped, Hem-stitched, and Embroidered Handkerchiefs. Pillow Cases. Sheet and Pillow Shams. Sheets, embroidered and plain. Double Damask Table Cloths and Napkins. Doyleys and Tray Cloths. Brown, Dyed, and Finished Linens. Hollands. Glass Cloths and Towels.

1175 CALEDON WOOLLEN CO., Caledon, Co. Tyrone, Ireland.

Irish Tweeds, Friezes, Blankets, Rugs, Serges, Costume Cloths.

1176 MARTIN MAHONY & BROS., LIMITED, 3, Camden Quay, Cork, and Blarney Factory.

Blarney and Shamrock Fingerings. Fleecy Wools. Knitting Worsteds and Yarns.

1177 MARTIN MAHONY & BROS., LIMITED, 3, Camden Quay, Cork, and Blarney Factory.

Blarney Tweeds manufactured from Australian Home Wools. Tuskar Boating Serges, and Worsted Coatings.

1178 WILLIAM BARBOUR & SONS LIMITED, Hilden Flax Mills, Lisburn, Ireland.

Linen Threads, in hanks, balls, and on spools. Shoe Thread in balls. Linen Yarns. Hemp Yarns. Twines for fish lines, net making, seaming, roping, &c.

1179 Pim Brothers & Co., 22, William-street, Dublin; and 3 and 4, Milk-street, London, E.C.

Silk Poplins for Ladies' Dresses. Silk Handkerchiefs. Brocaded Silk Terries for furniture purposes.

1180 O'Reilly, Dunne, & Co., 30, College Green, Dublin.

Irish Poplin, black and coloured. Empress Poplin. Imperial Fine Poplin. Brocaded Poplin. Double Poplin. Demie Poplin. Single Poplin. Irish Black Silk.

1181 O'Reilly, Dunne, & Co., 30, College Green, Dublin.

The Manufacture of Brocaded Poplin, Jubilee Pattern.

1182 Robert Usher & Co., Greenhills Factory, Drogheda.

Linen Goods.

1183 The Island Spinning Co., Limited, Island Mills Lisburn, Ireland.

Flax in various states. Flax yarns: 2 and 3 Fold Flax Yarns. Linen Threads, Carpet Threads, Jacquard Threads, Wax Machine Threads, Threads for Sole-sewing Machines, 6-cord Cable-laid Threads, for heavy leather work, Macrame Lace and Macrame Lace Threads, Gilling and Fishing Threads. A Polling Fishing Net.

1184 Frankland-street Collar Co., Limited, 2, Great Victoria-street, Belfast.

Ladies' and Boys' Linen Collars and Cuffs. Holland Pinafores. Diaper Pinafores. Holland Aprons. Fancy Dress Aprons.

1185 Wolfhill Flax Spinning Co., Limited, Ligoniel, Belfast.

Different Processes in connection with the Spinning of Linen Yarns, such as rough flax, dressed line rove, sheeting yarns, thread yarns, fine and coarse lines. Dyed yarns, bleached and boiled, and creamed yarns.

1186 Irish Lace Depot, Ben Lindsey, 76, Grafton-street, Dublin.

Specimen of Irish Lace, described by the trade designation with the name of district or town where made, and the name of workers attached.

1187 Forrest & Sons, 100 and 101, Grafton-street, Dublin, and 34, Patrick-street, Cork.

Irish Point, Limerick, Innishruacsaint, Crochet, and Carrickmacross Lace Flounces, Trimming Laces, Fichus, Lappets, Handkerchiefs, Fan Covers, &c. Irish Poplin Dress trimmed with Carrickmacross Guipure Lace. Irish Poplin Tea Gown, trimmed with Carrickmacross Appliqué Lace, Infant's Robe of Carrickmacross Guipure Lace. Infant's Dress of Carrickmacross Guipure Lace.

1188 ULSTER LINEN TRADE EXHIBIT, under the Auspices of the Belfast Linen Merchants' Association, Belfast, Ireland.

The contents of this case represents the Linen Trade of Ulster, and are supplied by the various firms connected with the industry scattered over the province. There are here shown the entire and various processes through which the flax passes from the seed to the ready-made articles of clothing. Flax Seed. Flax in the raw state, and in various stages of spinning. Flax Yarns, grey, bleached, and dyed. Flax Threads, suitable for shoemaking, tailoring. bookbinding, and other purposes. Textiles made from flax, including grey, dyed, printed, bleached, and figured linens and unions: Rough Browns, Hollands, Buckrams, Coat Paddings, Canvases, Drills, Dowlas, Roller Towellings, Huckaback, Glass Cloths, Grey and Bleach Towels, Diapers, Table Damasks, Damask Towels, Sheetings, Pillow Linens, Curtains, Furniture Coverings, Carriage Rugs. Shirting and Family Linens, Shirts, Collars, Cuffs, White, Printed, and Embroidered Pocket Handkerchiefs, Aprons, Pinafores. Brown, Dyed, and Printed Dress Goods. Printed Shirtings.

1189 THE BELFAST ROPEWORK CO., LIMITED, Connswater, Belfast,

Ropes for Transmitting Power, Hoists, Ships' Running Gear, Block Ropes. Cords for Reins, in hemps, Italian, and flax. Cords for Window Sashes, plaited and hand-made, in hemp, Italian, and flax, of assorted sizes. Twines, of flax, Italian, and hemp, for general use.

1190 BELFAST HEMSTITCHING CO., LIMITED, Hope-street, Belfast.

Hemstitching and Hemstitching Machines.

1191 F. AND I. CLAYTON, Navan, Co. Meath.

Worsted Coatings. Meltons and Beavers. Broad Cloth and Pilots. Saxony and Cheviot Tweeds. Friezes and Plaids. Blankets and Flannels. Gladstone Rugs. Ladies' All-wool Dress Goods. Fingerings and Knitting Yarns. Skin Hearth Rugs and Mats.

1192 THE MOST NOBLE THE MARQUIS OF WATERFORD (manager, William Abbott), Woollen Mills, Kilmacthomas, Co. Waterford.

Woollen Goods. Tweeds. Horse Clothing.

1193 GREAT SOUTHERN AND WESTERN RAILWAY CO., Inchicore, Dublin.

Locking Frame of 28 levers, for working railway points and signals. Two-armed Bracketed Signal. One-armed Single Signal. Ground Disc Signal.

1194 WILLIAM HENRY ELLIOTT, Railway Cottage, Thurles, Co. Tipperary.

Model Set of Railway Rails. Set of Points, worked and interlocked by Elliott's patents. Model of Two-armed Bracketed Signal. Points and signals, worked by a three-lever locking frame. Model of a Single Signal, in cast-iron. Model of a Single Signal, in wood, fitted with an appliance for working the arm, the wires working the same not requiring any adjustment. Model of a Two-armed Slotted Signal. Model of a Ten-lever Locking Frame. Models of Electric Appliances for Repeating the Actions of Points and Signals.

1195 MICHAEL ELLIOTT, Bridge End, Mallow, Co. Cork.

Model of Apparatus for Compensating the Expansion and Contraction of Wires.

1196 W. CURTIS & SONS, 98 and 99, Abbey-street, Dublin.

Set of Double-flanged Cocks and Lock Levers for breweries and distilleries. Tray for brewers' cleansing vessel, with three 5in. cocks for starting, turning, and washing combined. Improved Smith's Patent Racking Apparatus, with check valve on air pipe. Beer Engine Fittings. Beer and Spirit Taps. Fire Brigade Standpipe and Fittings. Sight Lubricator and Oil Syphons. Plumbers' Brass Work. Ordinary Plug and High-pressure Hot and Cold Water Taps. Six-wick Dioptic Lighthouse Burner. Railway Lamps. Five-light Gas Standard, nickel plated. Ornamental Gas Bar for shop window. Polished Brass Communion Rail and Church Brass Work. Railway Carriage Furniture, &c.

1197 PHILIP PIERCE & Co., Mill-road Iron Works, Wexford, Ireland.

Patent Orion Grass Mower, width of cut 4ft. 3in. Patent Steel 19-tooth Tumbler Rake, with alternate teeth removable for changing into Rake or Gatherer. Patent Single Drill Turnip and Mangold Seed Sower.

1198 J. EDMUNDSON & Co., LIMITED, 33 to 36, Capel-street, Dublin; 19, Great George-street, Westminster.

Wigham's Patent Double Quadriform Lighthouse Gas Light, having an illuminating surface of about 16ft. by 8ft. Wigham's Patent Royal Atmospheric Gas Machine, for making gas without fire; 100 lights; entirely Irish manufacture. Model to Scale of Galley Head Lighthouse Lantern, Wigham's quadriform gas light. Model to Scale of Mew Island Lighthouse Lantern, Wigham's triform gas light. Model to Scale of Tuskar Lighthouse Lantern, biform oil light, manufactured in Ireland and erected by J. Edmundson & Co. Model of Lantern to contain Wigham's double quadriform gas light. Revolving Harbour Light, red and white. First Order Lighthouse Oil Lamp, Wigham's patent air system, requiring no glass chimney. Sundry Lighthouse Burners.

1199 THE MAYO GRANITE COMPANY, Blacksod Bay, Belmulett, Co. Mayo; 51, King-street, and 22, Booth-street, Manchester.

Polished Granite Columns, 10ft., 15in. by 15in. with plinth and moulded base. Ditto, 5ft., 21in. by 21in. Ditto, Pilasters, 7ft., 15in. by 6in. Part polished Step, 6ft., 18in. by 6in. Landing, 8ft. by 3ft. 6in. Granite Curbing, Crossings, Paving Sets, and Ashlar Walling, part polished.

1200 IRISH SECTION COMMITTEE, Royal Dublin Society, Kildare-street, Dublin.

A General Collection of Irish Marbles, Building Stones, Ores, &c.

1201 WILLIAM JOHN HYNES, Woodmount, Ballinasloe; and 28, Elgin-road, Dublin.

Columns of Marble from Creagh Quarry, Ballinasloe, Co. Roscommon.

1202 JOHN MILLER & SON, Marble and Granite Works, Galway.

Irish Marbles. Polished Galway Granites and Galway Marbles.

1203 WILLIAM SMITH, 1, Clyde-road, Dublin.

Waterproof Cement, in blocks, slabs, bricks, tiles, and pipes.

1204 CHARLES WILLIAM HARRISON, 178, Great Brunswick-street, Dublin.

A Caen Stone Figure, "The Virgin and Child," and a Celtic Cross in Irish limestone.

1205 H. SIBTHORPE & SON, 33, Molesworth-street, Dublin.

Irish Marbles. Slab, Galway Black (Merlin Park Quarry), 12ft. by 6ft. Ditto, Little Island (red). Block, Lissoughter (green). Ditto, Midleton (grey and pink). Ditto, Moneen (dark grey). Ditto, Clonowen (grey fossil). Bust Pedestals. Piece of Altar Rail and Step. Sundry Columns of above Marbles. Choice pieces of Lissoughter green.

1206 VICTORIA SLATE CO., LIMITED, Victoria Slate Quarries, Carrick-on-Suir; and 11, South Frederick-street, Dublin.

Slate Block cut with mallet ready for Splitter. Block sawn at each end and ready for Splitter. Block after passing through the Splitter's hands and ready for Dresser. Dressed and Finished Slates. Specimen Roof.

1207 BENDUFF AND FROE SLATE CO., LIMITED, Rosscarbery, Co. Cork, Ireland.

12 Roofing Slates, Queens, Princesses, and Duchesses.

1208 THE EGLINTON CHEMICAL CO., LIMITED, 27, St. Vincent Place, Glasgow.

Model of Devnish Round Tower in paving sets. Model of Giant's Causeway Chair. Irish Limestone. Irish Limeshells. Whiting. Paving Sets. Irish Bauxite (Alum Clay). Irish Flints.

1209 & 1212 THE GREAT SOUTHERN AND WESTERN RAILWAY CO., Locomotive Works, Inchicore, Dublin.

Express Passenger Engine and Tender, built by the G.S.W.R. Co. Engine: Four coupled wheels, 6ft. 6in. diameter; cylinders, 18in. × 24in.; heating surface, 1,050ft.; grate area, 18¾ft.; steam pressure, 160lbs., fitted with vacuum brake; working weight, 39 tons 4cwt.; gauge of road, 5ft. 3in. Tender: Tank, 2,700 gals.; weight, loaded, 28 tons 6cwt. With the engine is shown a pair of cylinders, with air passages for vacuum brake, front covers, &c., cast in. Photos of rolling stock, and specimens of work.

1210 DANIEL MILLER & CO., 29, Church-street, Dublin.

Selection of Copper and Brass Work for breweries, distilleries, &c. Hot Water Boilers and Cylinders for domestic purposes.

1211 BELFAST ELECTRIC APPLIANCES CO., LIMITED, Clarence-street, Belfast.

Arc Light Carbons. Arc Lamps.

1213 WILSON BROTHERS, Shannon Saw Mills, Athlone.

Bobbins used in the Manufacture of Wool, Flax, Cotton, and other fabrics; also specimens of Irish Timber for Coach Building, Tool Handles, Brushes, and other purposes.

1214 BENJAMIN WATSON, 6 and 7, Robert-street, Cork.

Pair of Ornamental Wrought-iron Avenue Entrance Gates, 11ft. 6in by 8ft. high. Ornamental Wrought-iron Communion Standard. Ornamental Wrought-iron Choir Screen, or Chancel Screen Panel. Ornamental Wrought-iron Panel for inserting into timber entrance gates, or suitable for glass porch entrance; also for chancel or choir screen. Portion of Wrought-iron Cross for church spire.

1215 WALTER CARSON & SONS, 21 and 22, Bachelor's Walk, Dublin.

Hanlon Speedy Plough for ploughing in the style of the American Digging Plough.

1216 THOMAS GRENDON & CO., Drogheda Iron Works, Drogheda.

Locomotive Cylinders, castings and finished. Horizontal Steam Pumping Engine. Brass Pump. Cast-iron Slotted Drain Plates. Ship Models.

1217 JOHN SIMONTON, Comber, Co. Down.

Monocycle, or One-Wheeled Velocipede.

1218 MUSGRAVE & Co., LIMITED, Ann-street Iron Works, Belfast; 97, New Bond-street, London; 240, Rue de Rivoli, Paris.

Musgrave's Patent Fittings for Stalls and Loose Boxes. Musgrave's Patent Fittings for Harness and Saddle Rooms. Model of Stable fitted with Musgrave & Co.'s Safety Fittings. Musgrave's Patent Slow-combustion Ulster Stoves for warming halls, churches, schools, &c. Musgrave's Patent Ventilating Air-warmer. Musgrave's Patent Hot-water Apparatus, Hot-water Coils, and Coil Cases. Musgrave's Patent Piggery Fittings. Specimen of Architectural Wrought-iron Work

1219 GEO. FRAS. FITZGERALD, M.A., F.R.S., F.T.C.D., Professor of Experimental Science, Trinity College, Dublin.

Apparatus for Exhibiting Conical Refraction, designed by the late Dr. Lloyd. Saccharimeter, by Dr. Jellett, Provost of Trinity College. Model illustrating Electro-magnetic and Luminiferous Properties of the Ether, Sine, and Tangent Galvanometer, Lecture Balance, &c., by Professor FitzGerald. Steam Calorimeters, Biprism Photometer. Meldometer, to measure melting points of minerals. Modified Nicholson's Hydrometric Balance, apparatus for recording observations at a distance, &c., by J. Joly, B.A., Assistant to Professor of Engineering.

1220 JAMES MACKIE & SON, Albert Foundry, Albert-street, Belfast.

Samples of Spindles and Flyers used in flax, tow, and jute spinning. Brass Retaining and Delivery Rolls used in same manufactures.

1221 YEATES & SON, 2, Grafton-street, Dublin.

Optical Bench. Electrical Registering Rain Gauge. Patent Dumpy Level for Surveyors. Improved Heliostat. Standard Measure. Electrical Rheostat, with improved springs and stops. Small Equatorial Telescope.

1221 BESSBROOK GRANITE CO., LIMITED, Bessbrook, Ireland.

Polished Granites in form of Building Work, Polished Columns, Cocoa and Paint Grinding Rollers, Tramway Paving, Street Kerbing, Monuments, Obelisks, Crosses, &c.

1222 THE DUBLIN UNITED TRAMWAY CO., 31, Great Sackville-street, Dublin.

Tram Car, built at The Dublin United Tramway Company's Works, Inchicore, Dublin.

1223 HUGH CAMPBELL & SON, Newry Granite Polishing Works, Moor Quarries, Newry, Ireland.

Column Monument, Irish Cross Monument, Set of Grave Borders.

1225 DUBLIN PREPARED PEAT LITTER CO., 24, Eden May, Dublin.

Specimen Bales of Irish Peat Moss Litter. Samples for packing and deodorising purposes.

1226 CHANCELLOR & SON, 55, Lower Sackville-street, Dublin.

Large Turret Clock, on bed-plate system, measuring 5ft. by 3ft., with 15in. main wheels, teeth cut from solid, adapted for showing time on four dials 8ft. each, and arranged with cams for lifting hammers striking on two bells weighing about 10cwt. and 6cwt., with dead-beat remontoire escapement, maintaining power, and second-and-a-half pendulum. Turret Clock, on bed-plate system, adapted to show time on one or two dials up to 4ft. in diameter, striking the hours and quarters, fitted with Graham's dead-beat escapement, and full seconds pendulum.

1227 WALTER WOOD, 13, Delahay-street, Westminster, London.

Copper Ore, from Bantry and Kilerhane, Silver Ore from Lesheaanig, Bantry.

1228 & 1235 ROSS AND WALPOLE, North Wall Iron Works, Dublin.

Geoghegan's Patent Tip Wagon for 1ft. 10in. gauge, cubic capacity 3 yards. Casting of Locomotive Cylinder. Two Cylinders in one Casting, to bore to 18in. Cast-iron Slotted Plate for Hop Jack in brewery. Perforated Plate for Mash Kiln in distillery.

1229 WILLIAM SPENCE, Cork-street Foundry and Engineering Works, Dublin.

Shunting Locomotive Engine for Narrow-gauge Railways or Tramways, S. Geoghegan's patent. The chief dimensions, &c., of the engine are—diameter of cylinders 7in., stroke of piston 8½in., diameter of wheels 1ft. 10in., wheel base 3ft. Boiler—diameter of barrel (inside) 2ft. 5in., number of tubes 64, diameter of tubes (outside) 1½in., length of tubes between tube plates 2ft. 10⅜in., heating surface, firebox 13·75 sq. ft., tubes 72·61 sq. ft., total heating surface 86·36 sq. ft., pressure of steam 180lb., total weight 7 tons 15 cwt., power equal to a load of 120 tons at 10 miles an hour, or a load of 25 tons up a gradient of 1 in 40. Set of Three-throw Pumps, brass barrels, stroke 21in. by 8in. diameter, capable of discharging 15,000 gallons per hour. Bung Cutting Machine, capable of turning out 700 bungs per hour. Branding Machine for casks, packing cases, &c.

1230 JOHN ORR WALLACE, 18, Waring-street, Belfast.

Machine for breaking, scutching, and cleaning flax and other fibres.

1231 JOHN ROGERS, 19 and 21, Queen's-square, Belfast.

Felt Roof. Roofing Felt. Sarking Felt. Ship Sheather's Felt. Inodorous Felt. Felt Varnish. Coloured Varnish for Felt Roofs. Wire Work (various). Wire Gauge. Extra Strong Wire Cloth. Wire Window Guards for shop fronts. Antifriction Grease. Cog-wheel Grease.

1232 MATTHEW BYRNE, 42, James's-street, Dublin.

Three Bells, with mountings and frame to support them.

1233 WILLIAM A. TRAILL, C.E., Giants' Causeway Electric Tramway, Portrush, Co. Antrim.

Model of an Overhead Electric Railway for the Mersey Docks at Liverpool, with a Working Model Electric Car.

1234 HOWARD GRUBB, F.R.S., Rathmines, Dublin.

Semi-portable Iron and Wood Observatory, with revolving dome, 15ft. diameter, and covered with papier-maché; transit room, with new transit shutter; photographic room, &c. New form of Twin Equatorial Telescope, as constructed for the observatory of Dr. W Huggins, F.R.S., London, and that of Mr. J. Roberts, F.R.A.S., Liverpool, carrying an 8in. refractor for general star-gazing and micrometrical work, and a 17in. reflector, especially fitted for Stellar photography, furnished with all recent improvements, electrically-centralled clock, electric illumination for circles, verniers, &c., the reflecting telescopes having independent motion in declination. 5in Refracting Telescope, mounted on a new form of equatorial, in which all clamps are dispensed with, fitted with electric illumination and readers reading all circles from eye-end of telescope. 4in. Binocular Telescope new form of instrument. Binocular telescopes are usually limited in size by distance between the human eyes; by this arrangement any size telescope can be used as binoculars. 4in. Astronomical Telescope, mounted on siderostatic, or lazy principle, by means of which the advantages of an equatorial mounting are obtained while the eye-piece of the telescope is available to observers inside any ordinary sitting-room; the arrangement of this instrument for adaptation to any ordinary south window is shown in accompanying model. 3in. Refracting Telescope on Student's Equatorial. Glass case containing Model of Great Vienna Equatorial, scale $\frac{1}{12}$. Glass case containing Design Model for Lick Observatory, California; all the motions worked by electricity. The essential features of this design have been adopted by the trustees. Glass case containing various Specimens of Apparatus manufactured at Mr. Howard Grubb's works. Grubb's Patent Microscope. Solar Spectroscope, G of catalogue Stellar Spectroscope, H of catalogue, made for Professor Young, of United States, and various home observatories. Level Tester on

Optical Plane. Unifilar Micrometer and Electric Illumination for same. Wedge Photometer. Sets of Negative and Positive Eye-pieces. Transit Eyepiece. First Surface Reflecting Solar Eye-piece. Combined Polarizing and Dawe's Solar Eye-piece. Total Reflecting Eye-piece for Zenith Stars. Combined First Surface Reflecting and Zenith Eyepiece. Barlow Lens. Dr. Stoney's Collimator for Adjusting Reflecting Telescopes. Set of Object Lenses, showing the various stages of the grinding and polishing processes. Set of Grubb's Patent Photo Lenses. Sets of Double and Triple Condensing Lantern Lenses. Various sizes of Simple and Compound Prisms for spectroscopic work. Variable Prisms. Large Half-compound Prism, intended for spectroscope similar to that lately made for Dr. Crookes, F.R.S. Large Totally Reflecting Prism. Electric Switches. Rheostats, &c., for telescope attachments. Model of Cylindroid. Machine for Calculating Curves of Telescope and other Lenses. Various Framed Photographs and Engravings of Instruments and Observatories erected by Mr. Howard Grubb.

1236 Daniel Harris & Son, Charlemont Bridge Works, Dublin.

Full-sized Billiard Table, mahogany frame, slate bed, patent cold-resisting cushions, and improved adjustment girders.

1237 Thos. Pearson & Co., 11 to 16, Ship-street, Dublin.

Brass, Copper, and Iron Wire Webs. Woven Wire Mattresses. Hospital Bed. Millstone for grinding cement or coporolites.

1238 J. Doyle & Sons, 15, Queen-street, Dublin.

Irish Outside Car, with movable underwell, ladies' backrests and footstool, coachman's driving seat, Warner patent wheels, and Collinge's patent axle.

1239 Isaac J. Murphy, Armagh, Ireland.

Machine for the tri-section of an angle or arc of a circle. Machine for the division of angles or arcs of circles into integral fractional parts.

1240 Bewley, Webb, & Co., Port of Dublin Shipyard, North Wall, Dublin.

Models of Steamers. Kneading Machine. Machine for Dividing Dough.

1241 Maguire & Son, Dublin Sanitary and Engineering Works, 6, 7, and 8, South Frederick-street; office, 10, Dawson-street, Dublin.

Dr. Scott's Patent Disinfecting Chamber, with gas regulators and double doors. Set of Maguire's Ventilating Extractors. Specimens of Wrought-iron Brackets, &c. Irish Marble Mantelpiece with Hearth and Kerb. Specimens of Mrs. Huyghenbotham's Silk and Lace Lamp Shades. Specimens of Irish Marbles. Specimens of various Irish Manufactures.

1242 J. Edmundson & Co., Limited, 33 to 36, Capel-street, Dublin; and 19, Great George-street, Westminster.

Suite of Bedroom Furniture, consisting of wardrobe, dressing table, washstand, pedestal, towel rail, and three chairs. The design is from the antique; the suite is composed entirely of Irish poplar, veneered on Irish ash. Toilet Set.

1243 H. E. Phillipson, 30, Stafford-street, Dublin.

Inlaid White Marble Mantelpiece, in Bossi style. Period about A.D. 1750, in Dublin. Inlaid White Marble Half-round Table; frame in enamelled woods, Bossi. Period about A.D. 1750, in Dublin. Inlaid White Marble Altar Tablet.

1244 Pim Brothers, Limited, South Great Georges-street, Dublin.

Suite of Drawing-room Furniture, walnut inlaid, covered in Irish figured poplin; curtains to match. Suite of Dining-room Furniture in walnut. Suite of Bedroom Furniture, in walnut, carved panels, hand painted tile.

1245 John Power & Son, John's-lane Distillery, Dublin.

Float to carry 6 hogsheads, will draw 3 tons. Framework of body Irish oak and ash, bottom sheeting Irish elm, mounted on 2½in. crank, taper arm axle. Built by J. C. Mahon, 5, Summer Hill, Dublin.

1246 John Hutton & Sons, 115, Summer Hill, Dublin.

Sociable, on C and undersprings. Irish Car, with movable well.

1247 T. Coghlan, 40, Lower Camden-street, Dublin.

Full-size Billiard Table, slate bed, mounted on massive frame, made of Pollard oak, with automatic screw adjustments, and appointments.

1248 Lawson's Patent Adhesive Capsule Co. (James G. Macintyre, sec.), 61, William-street, Dublin.

Capsules made of Paper, put on in two pieces.

1249 Michael Power, 9, Summer Hill Parade, Dublin.

Inlaid Marble Table Top. (Artisan exhibitor.)

1250 S. Wilson & Co., 19, Corporation Square, Belfast, Ireland.

Tennis Tent without centre pole. Model of Ballroom Marquee. Tennis Tent and Decoration Poles. Patent North Tennis Poles.

1251 Edward J. Keane, 21, Upper Cross-roads, South Circular-road, Dublin.

Three Violins. (Artisan exhibitor.)

1251 Benjamin Davis, 8, St. Alban's-road, South Circular-road, Dublin.

A Banjo. (Artisan exhibitor.)

1251 Francis Holden, 42, Lower Dominick-street, Dublin.

Panel Modelled in Plaster, Wild Boar Hunt. Ditto, Renaissance style. Do., Roses. Panel in Marble, low relief Flowers. (Artisan exhibitor.)

1252 James Dillon, C.E., M.I.C.E, Stratford, Glengeary, Co. Dublin.

Dillon's Patent Automatic Sounding Machine and Tide Recorder. From an inspection of the diagrams Nos. 1, 2, and 3, and model to this invention, it will be seen that it consists of a sounding bar or tube, or weighted sounding wire, working dial-hands or pencil-pointers on rolls of section paper, recording automatically the varying depths of ground under water, or the amount of dredging or river excavation during progress of works, &c. It will also indicate by semaphore signal or diagrams, on rolls of paper, on Section board of ship or man-of-war, the rise or fall of ground under ship's bottom when navigating dangerous waters. This is effected by the varying angle of the sounding tube resting on the ground under water. From an examination of diagram 3, it will be seen how the instrument can be made to automatically record and telegraph to a distant town the rate of consumption or the rise or fall of reservoir waters for the supply of towns.

1252 James Dillon, 36, Dawson-street, Dublin.

Dillon's Patent Marine Surveying and Automatic Sounding Machine and Tide Recorder.

1253 Andrew Cameron Brunton, New Mills, Mountmellick, Queen's County.

A Tweed Designer's Idea, or Trial Loom, and specimens of designs.

1254 John Murphy, 14, Thomas-street, Dublin.

Bell, weight 27cwt. 3qr., note D natural. 4in. Gland Cock. 5in. Wheel Sluice Valve. Gongs. Copper Piece.

1255 The Belleek Pottery Co., Limited, Belleek, Co. Fermanagh, Ireland.

Parian Statuary and Ornamental Goods, General Earthenware, and Sanitary Ware.

1256 Samuel Matthews, Dufour Court, South Brown-street, Dublin.

Fancy Leather, morocco, roan and skiver, flat calf.

1257 DAVID WIGHTMAN, 8, Castle-street, Belfast.

Irish Bog Oak Jewellery—Bracelets, Brooches, Earrings, Crosses, and Pendants—mounted in silver and gold.

1258 KATE NOLAN, 37, Donnybrook, Co. Dublin, and 84, Rathmore Terrace, Cork.

Machine for making Hair Jewellery. Bouquet of Flowers made of Human Hair. Ear-rings, Finger-rings, Bracelets, Albert and Guard Chains, made of Human Hair.

1259 KNAGGS BROTHERS, 27, Grafton-street, Dublin.

Model Irish Jaunting Car. Silver-mounted Tankard, Legend of St. Hubert. Silver-mounted Salvers, in Celtic work of 12th century. Salad Bowl in form of National Lifeboat. Claret Jugs, &c. Old Irish Jewellery, gold and silver mounted. Bog Oak Boxes, inlaid with Connemara marble. Art Specimens in Irish and Manchester coal. The Fisher Boy. Medallion. Rubens.

1260 WILLIAM R. BOX & CO., 105, Middle Abbey-street, Dublin.

Harness Mountings in Brass, Silver, German Silver, and Silverstein. Hames, Bits, Stirrups, Spurs, and other polished work. Crests, Monograms, and State and Civic Coats of Arms. Tramcar Fittings, Bells, Carriage Door Handles, Cab Fittings and Requisites in Brass, Silver, German Silver, and Silverstein, for the Coach-building and Harness-makers' Trades. Box's Patent Safety Saddle Bar.

1261 JOHN MCDONNEL & CO., LIMITED (John Girdwood Drury, Managing Director), 8, Lower Ormond Quay, Dublin; mills, Swiftbrook Mills, Saggart, Co. Dublin; No. 41 Mill.

Fine and Superfine Cream Laid and Wove Writing Papers. Antique or Vellum Writing Paper. Blue Writing Paper. Extra strong S.B.M. Azure Laid Account Book Papers. Samples of the materials used in the manufacture of the above papers in various stages of manufacture.

1262 WILLIAM HEGARTY & SONS, 380, Blarney-street, Cork.

Monster Satin, Satin Calf, Sides and Shoulders Memel, Waxed, Russett, and Kid Calf, Levant Hides, Shoulders and Goat, Horse Crupp and Horse Kid, Kip Butts.

1263 E. LAIRD, 58, Grafton-street, Dublin.

Irish Point Lace Fan, mounted in tortoise-shell, and gold and silver shamrocks. Limerick Lace Fan, and Bog Oak, Satin, and Bog Oak Fan, hand painted. Carrickmacross Lace and Tortoise-shell Fan. Irish Black Silk Lace and Ivory Fan. Black Satin Fan, painted with Irish views. Limerick Lace Fan, mounted on white satin. Bog Oak and Feather Fan.

1264 D. Anderson & Son, Limited, Lagan Felt Works, Belfast.

Model of Wooden Lattice Girder Felted Roof. Model of Building, showing methods of using Felt and Silicate Cotton (or Slag Wool), for lining, deafening, and non-conducting purposes, and Felted Asphalte for preventing damp rising in walls. Model showing method of using Silicate Cloth, for covering boilers and steam and water pipes. Roofing, Sarking, Sheathing, Lining, and Dry Hair Felts, and Felted Asphalte or Foundation Felt. Silicate Cotton (or Slag Wool) and Non-conducting Silicate Cloth.

1265 R. & F. Keane, Iron and Brass Founders and Makers of Agricultural Machines, The Foundry, Cappoquin, Co. Waterford.

Enclosed-gear Two-horse Mower complete. Steel Tooth Tumbling Rake and Hay Gatherer.

1266 Jameson, Pim, & Co., North Anne-street Brewery, Dublin.

Invalids' Imperial Stout, Extra Stout and Porter.

1267 Sweetman & Co., Francis Court Brewery, Dublin.

Stout and Porter.

1268 John Plunkett & Co., Portland-street West, Dublin.

Irish Barley, used for malting purposes. Pale Malt, for brewing ales and porter. Patent Roasted Malt, Patent Chocolate Malt, and Patent Roasted Maize, for colouring and flavouring porter and stout. Amber Malt, for colouring and flavouring ales and porter. Crystal Malt, for colouring and flavouring ales and porter, and for giving a nut-brown head to porters and stouts.

1269 The Glen Distillery Co.; Distillery, Kilnap Glen; city office, 1, Carroll's Quay, Cork.

Specimens of Whisky of different ages.

1270 Robert A. Taylor, The Distillery, Coleraine, Ireland.

Coleraine Pot Still Malt Whisky.

1271 T. P. R. Goodbody, Greenville, South Circular-road, Dublin.

Irish Rolls, and Fancy Rolls of all classes. Fancy Pressed Tobaccos. Cut Tobaccos of all descriptions. Cigarettes and Cigars.

1272 John Power & Son, John's-lane Distillery, Dublin.

Dublin Pot Still Whisky.

1273 Girdwood's Patent Asthma Remedy, Donegall Square North, Belfast.

1274 J. McCarthy & Sons, Cook-street, Cork.
Irish Whisky.

1275 Allman & Co., Distillery, Bandon, Cork.
Samples of Whisky. Model Still and Worm. Casks and Cases.

1276 The Bushmills Old Distillery Co., Limited, Distillery, Bushmills Co. Antrim ; offices, 1, Hill-street, Belfast.
Malt Whisky in cask and bottle.

1277 Cantrell and Cochrane, Dublin, Belfast, Glasgow, and London.
Ginger Ale (Aromatic), Club Soda, Lemonade, Sparkling Montserrat, Royal Seltzer Water, Potass Water, Lithia Water, Koh-i-noor, Lime Juice Syrup, Orange Bitters.

1278 W. J. Jury, 11, Chichester-street, Belfast; 1 & 2, Princes-street, Dublin ; 181, Fleet-street, London, E.C.
Irish Whiskies. Nucta Bitters, &c.

1279 Alex. Crawford & Son, 20, Mill-street, Belfast.
Amylaceous Food. Starches.

1280 W. A. Ross & Co., Royal Belfast Ginger Ale and Aerated Water Works, Belfast, Ireland.
Ginger Ale, Lemonade, Sarsaparilla, Soda Water, Potash Water, Seltzer Water, Lime Juice Cordial, Pure Lime Juice, Raspberry Vinegar.

1281 Bewley and Draper, Limited, Mary-street, Dublin.
Ginger Ale, Lemonade, Ginger Beer, Soda Water, Seltzer Water, Potash Water, Lithia Water, Ginger Wine, Orange Wine, Orange Bitters, Orange and Quinine Wine, Cherry Brandy, Lime Juice Syrup, Ginger Cordial, Peppermint Cordial. Writing Ink, Coyping Ink. Perfumes, Tooth Powders, Tooth Paste, Hair Oils and Pomades, Toilet Creams and Shaving Paste.

1282 Plunkett Brothers, Belle Vue Malt Factory, Dublin
Glass Case, in form of Malthouse, containing various samples and descriptions of Patent Roasted Malts, Candied Malts, Pale Malts, and Brown Malts.

1283 Harrington Brothers, Shandon Chemical Works, Cork.
Oxides for Glass, Porcelain, and Enamel Industries. Cobalt, Nickel, Copper, Tin, and other oxides. Tungsten Metal and Salts, Stannate of Soda, Antimony Oxalate, Phosphorus, Penta- and Tri-Chlorides, Antimony Sulphuret (golden), &c. Acids : Acetic (anhy-

drous), Hippuric, Monochloracetic, Succinic, &c. Acid Molybdic, Ammonia Molybdate, Soda Carb. puriss. anhydrous, Zinc puriss., &c. Magnesia Carbonate, Calcined, &c., Lithium Carbonate, &c.

1284 RICHARD HARTLAND, The Lough Nurseries, Cork.

Sections of Irish-grown Woods. Cones gathered from Imported Trees now growing in Ireland. Varieties of Tree Seeds.

1285 THE DROGHEDA CHEMICAL MANURE CO., Drogheda.

Superphosphate. Bone Manure. Corn and Grass Manure. Special Root Manure. Special Manure. Dissolved Bones. Curaco Phosphate. Canadian Phosphate. Estramadura Phosphate. Canadian Phosphate. Bull River Phosphate. Cambridge Coprolite. Spanish Pyrites. Crushed Bones. Bone Meal. Kainit. Sulphate of Ammonia. Fish Guano. Sulphate of Potash. Dried Blood.

1286 MCMASTER, HODGSON, & CO., 121 and 122, Capel-street, Dublin.

Danish Butter Colour. Sweet Essence of Rennett. Hair Restorer.

1287 NICHOLAS DEVEREAUX & CO., Bishopswater Distillery, Wexford.

Whisky in Bottle.

1288, 1289, and 1295 THOMAS JENNINGS, Brown-street, Cork.

Light Carbonate of Magnesia in powder, and in blocks of various sizes. Light Calcined Magnesia. Ponderous Carbonate and Calcined Magnesia. Fluid Magnesia. White Wine, crystal and brown. Table and Pickling Vinegars. Spiced, Chili, Tarragon, and Raspberry Vinegars.

1290 ALEXANDER FINLAY, 35, Ann-street, Belfast, Ireland.

Soaps, Hard and Soft. Candles, Wax, Sperm, Paraffin, Composite, and Tallow. Raw Material from which these are manufactured.

1291 DEANS, HADDEN, & CO., 16, Commercial Court, and 28, Hill-street, Belfast.

Gingerette. Green Ginger Wine. Quinine Wine. Pine Apple Wine. Lime Juice Syrup. Macrone Cordial. Clove Cordial. Lime Fruit Cordial. Cinnamon Cordial. Peppermint Cordial. Raspberry Liqueur. Ulster Liqueur (registered). Raspberry Vinegar. Orange Tonic Bitters.

1292 FRED. LEWIS & CO., LIMITED, 6, Fleet-street, Dublin.

Trotter Oil. Electric Oil. Hair Colour Restorer. Depilatory Powder. Assorted Toilet Soaps. Spirit of Love Perfume. Assorted Pomades. Crystal Creams. Perfumes. Violet Powder.

1293 CHERRY AND SMALLDRIDGE, Seville Steam Works, Seville Place, Dublin.

Mustard in the raw and manufactured state.

1294 DENNY LANE, Silverspring Starch Works, Glanmire, Co. Cork.

Rice Starch, Blue and White.

1296 SIR JAMES MURRAY & SON, Chemical Works, Graham's Court, Temple-street, Dublin.

Fluid Magnesia. Fluid Camphor. Acidulated Syrup.

1297 MOLYNEUX AND FERGUSON, 7, Wilton Square South, Belfast.

Samples of Irish Wheat and Irish Wheat Starch.

1298 MARSH & Co. LIMITED, Donegall-street, Belfast, Ireland.

Samples of Biscuits in tins.

1299 SAMUEL MCCAUSLAND, Belfast.

Grass Seeds of Irish growth. Grass Seeds recleaned. Samples of Weeds, &c., extracted from grass seeds.

1300 PERCY H. RUSS, Culleenamore, Co. Sligo.

Oysters.

1301 KELLY, DUNNE, & Co., LIMITED, 51 to 55, Watling street, Dublin.

Trotter and Neatsfoot Oil. Sausage Casings. Racket and Whip Strings. Sheep Pelts. Lambs' and Sheep's Wool. Parchment.

1302 JAMES F. CREEDON, 27, South Mall, Cork.

Lotion.

1303 W. & H. M. GOULDING, LIMITED, 25, Eden Quay, Dublin ; and Glen, Cork.

Bone Manure. Special Manure. Corn and Grass Manure. Superphosphate. Bone Compound. French Superphos. Dissolved Guano. Sugar-cane Food. Guano Irlandes. Vigne Manure. Rice Manure.

1304 W. J. SHAW & SONS, LIMITED, Garryowen Bacon Factory, Limerick

Bacon, Hams, Lard, and other Pork products.

1305 J. CARMICHAEL-FERRALL, Augher Castle, Augher, Co. Tyrone.

Oatmeal, Wheatmeal, Steery, McLean's Mixture, Cows' Delight.

1306 Samuel Martin Macrory, Ardmore and Newtown Mills, Limavady, Co. Londonderry.

Oats grown in Co. Londonderry. Oatmeal: course cut, medium cut, superfine cut. Pin Head Oatmeal. Groats (whole). Groats (rolled). Meal Seeds or Oat Bran.

1307 Hugh Rainey, Jun., Church-street, Ballymena, Co. Antrim, Ireland.

Pale Dried Irish Rolls, Pale Dried Irish Bellies, Smoked Irish Roll, Smoked Irish Belly, Pale Dried Irish Hams, Smoked Irish Ham, Small Pickled Cured Pig.

1308 Charles James Hill, King-street, Waterford.

Waterford Eggs.

1308 John G. Rathborne, Dublin.

Candles made of Wax, Candles made of Spermaceti, Candles made of Paraffin, Samples of Crude and Refined Products of which the Candles are made.

1309 Fredk. King & Co. Limited, 26, Waring-street, Belfast; and 6, Bishopsgate Avenue, London.

Preserved Potato, Desiccated Soup, White (Vegetable) Soup.

1310 J. Matterson & Sons, Roches-street, Limerick.

Hams, Bacon, Lard, Sausages, Tinned Meats, Tinned Soups.

1311 T. J. Clanchy & Co., Butter Preserving Works, Cork.

Preserved Butter, in tins and other packages. Cured and Fresh Butter.

1312 J. Power & Co., 21, Drury-street, Dublin.

Irish Creamery Butter.

1313 A. Millar & Co., 10, 11, 12, Thomas Street, Dublin.

British Wines, Cordials, and Liqueurs.

1314 C. & J. O'Sullivan, Blarney-street, Cork.

Butter, in firkins, other packages, and tins.

1315 Creameries Association of Ireland, 16, College Green, Dublin.

Butter from the Creameries at Ashfield, Banbridge. Belturbet, Coachford, Cootehill, Mohill, Killeshandra, Galbally, Glenade, Clogher Park, Bride Valley, Golden, Kenmare, Geraldine, Castlehale, Munster Dairy Co., Ennismore, and Sallowglen.

1316 M. Glover, 124, St. Stephen's Green, Dublin.

Photographs, Portraits, and Studies, executed on paper and porcelain.

1317 WILLIAM LAWRENCE, 5 and 7, Upper Sackville-street, Dublin.

Magic Lantern Slides of the Scenery and Antiquities of Ireland.

1318 WILLIAM LAWRENCE, 5 and 7, Upper Sackville-street, Dublin.

Photographs of the Scenery and Antiquities of Ireland. Specimens of Photographic Portraiture.

1320 J. LAFAYETTE, 30, Westmoreland-street, Dublin.

Photographs taken direct from life: Her Majesty the Queen, taken by command in drawing-room at Osborne, Feb. 10, 1887 (two views); Her Excellency the Marchioness of Londonderry, Her Grace the Duchess of Leinster, Lady Brooke, Miss Armytage Moore, the Misses Darley, Miss Dufresne, Baby Poole.

1321 WERNER & SON, 39, Grafton-street, Dublin.

Large Photographs (portraits). Enlargements on Argentic Bromide paper from cabinet negatives. Painted enlargements in oil colours.

1322 JOHN CHANCELLOR, Photographer, 55, Lower Sackville-street, Dublin.

Frame of Large Portraits, taken direct from life, of their Royal Highnesses the Prince and Princess of Wales, Her Serene Highness the Princess Edward of Saxe Weimar, their Excellencies the Lord and Lady Lieutenants, Lord Castlereagh, Lord Rossmore, Lady Ranfurly, the Hon. Miss Crofton, Mdlle. Albani and Mdlle. Nordica, the late Fred Archer, &c.

1323 JAMES C. SEMPLE, 64, Grosvenor-road, Rathmines, Dublin.

Photographic Enlargements. Transparencies, &c. Optical Lantern and Enlarging Apparatus.

1325 SIMPSON SHEPHERD, 10, Olphansus Avenue, Drumcondra, Dublin.

Inlaid Panels of Wood and Marble, Bossie work. (Artisan exhibitor.)

1326 FRITZ SCHUMANN, 19, William-street, Dublin.

Specimens of Engraving on Stone. (Artisan exhibitor.)

IN THE ROYAL BOTANICAL GARDENS.

1345 FOLLOWS AND BATE, LIMITED, Froxmer-street, Gorton, Manchester.

Model Tool House and Potting Shed, for the convenient and safe storage of all the Implements, Tools, and Fire Extinguishing and other Apparatus used in Exhibition grounds. New Patent Silent Gorton Lawn Mower, 10in., for hand. Tennis and Anglo Lawn Mower, for hand. Patent Pony Lawn Mower, with improved tipping arrangement. Improved Garden Rollers, from 20in., double cylinders. Improved Garden Engine, 20 gallons. Improved Garden Pump. Improved Garden Water Barrow, 20 gallons. Improved Garden Barrows, Iron and Wood. Patent Garden Plough, complete with Shovel, Plough, Cultivator, Rake, Double Furrow Mould Board for hilling up Potatoes and Seed Drill. Improved Hand Gap Seed Drill. Improved Garden Hose Reel, to hold 200ft. ¾in. hose. Coil of Hose for ditto. Assortment of Garden Hoes, Rakes, and Spades. Assortment of Hedge Cutters and Tree Pruners. Assortment of Garden Shears and Border Shears. Improved Horticultural Tool Chest, complete. Patent Lawn Edge Cutter. Patent Gardener's Door Mat, in iron. Garden Tools, assorted. Patent Pot Plunger. Assortment of Watering Pots. Gardener's Grindstone, on high stand. Patent Cap Glasses. Economic Hot Water Heating Boiler, for Greenhouses, will heat 150ft. 3in. piping. Patent Tennis Court Marker. Bailey's Patent Hot Air Engine.

1346 T. & L. NOAR, 38, Church-street, Manchester.

Lawn Tent.

1347 THE MANCHESTER AND DISTRICT EDISON ELECTRIC LIGHT CO., LIMITED, 12, Victoria Buildings, and 7, St. Mary's Gate, Manchester.

A Complete Installation, showing application of Electricity for House Lighting, including about 70 Edison-Swan incandescent lamps, electroliers, brackets (Osler's), controlling switches, safety fuses, cables, wires (Glover's), 32 "B 23" Elwell-Parker grid plate cells, 5-unit dynamo, with flywheel and jockey pulley, 5h.p. vertical Otto gas engine complete, with water tanks, &c.

1347A CROSSLEY BROS. LIMITED, Openshaw, near Manchester.

Five Horse-power Vertical Otto Gas Engine complete, with water tanks, &c., driving 5-unit dynamo, in Edison House, Botanical Gardens.

1347b KENDAL, MILNE AND CO., Deansgate, Manchester.

Suite of Drawing-room, Dining-room, Bedroom, and Boudoir Furniture for the Jubilee House in the Botanical Gardens.

1347c ORME & SONS, Blackfriars-street, Manchester.

Billiard-room Fittings in Jubilee House, Botanical Gardens.

1347d ISAAC DIXON & CO., Windsor Iron Works, Spekeland-road, Edge Hill, Liverpool.

Iron Residence, with billiard-room attached, suitable for shooting lodge or dwelling-house, containing above Installation.

OLD MANCHESTER AND SALFORD.

OLD MANCHESTER AND SALFORD.

1 Lloyd, Payne, & Amiel, 10, 12, and 14, Thomas-street, Shudehill, Manchester.

Sterling Silver Jewellery. Gold Jewellery, plain, or set with precious stones. Gold and Silver Watches and Watch Materials. Real Coral. Jet, Amber, Agate, and Onyx Jewellery. Imitation Jewellery. Fans, and Mounted Scent Bottles. Clocks. Bronzes. Optical Goods. Opera and Field Glasses. Electro-plated Ware. Cutlery. Ivory Goods. Desks. Inkstands. Workboxes. Musical Boxes. Ladies' and Gentlemen's Fitted Dressing Bags. Trunks. Bags. Picnic Baskets. Flasks. Albums. Necessaires. Fitted Dressing Cases. Combs, Brushes, &c. Papier Mâche Goods, English and foreign. China Ornaments and Earthenware, &c. Jewellery manufactured on the premises.

2 Bryan Bernard Finnigan, 115, Market-street, Manchester

Portmanteaus, Fitted Bags, and Leather Goods.

3 C. Joseph & Co., 277, Pentonville-road, King's Cross London.

Working Jeweller and Mounter of South African Cat's Eye.

4 Burtles, Tate, & Co., Flint Glass Manufacturers, Poland-street, Oldham-road, Manchester.

Cut and Engraved Glass of all descriptions. Fancy and Art Decorative Glass. Glass engraving and working in operation.

4a John Heywood, Deansgate and Ridgefield, Manchester.

"Harrop's Weekly Mercury" Office, containing old-fashioned Wood Press, and other appliances used for printing a newspaper during the last Century, with Pressman, dressed in the costume of the period, working a fac-simile of "Harrop's Mercury" for November 28th, 1769. Interior of Old Bookbinding Shop, showing method of working; also Specimens of Various Styles of Ancient Bindings.

5 William Wilde, Bethel Works, Macclesfield.

A Hand Loom at work, making silk handkerchiefs for ladies' or gentlemen's use. Another Loom making a novel tie specially for ladies' wear.

6 George Falkner & Sons, The Deansgate Press, Manchester.

Representation of a Printing Office of the Caxtonian period, with Exhibits of Rare Books and Manuscripts, and Curiosities connected with the Art. The ancient wooden press is shown in operation as in the XV. century.

7 H. Samuel, Lever Watch and Clock Factory, 97 and 99, Market-street, Manchester.

Watches, Clocks, and Jewellery. Interesting operations in the manufacture and finishing of English Watches; also the twisting of curb chains, and gilding of same, and Jubilee Exhibition Badges and Brooches.

8 John Jones, Art Metal Worker, Walker's Croft, near Victoria Station, Manchester.

Wrought-iron Gates, Finials, Railing, Vanes, Lamp Brackets, Balusters, Hinges, Door Handles, Bolts, Altar Standards, Lightning Conductors, Gas Pendants, and Brackets. Iron, Brass, and Gun-metal Casements, Casement Fittings, &c.

8a Philip Morris & Co., Limited, 41 and 42, Poland-street, and 5, Great Marlboro'-street, London, W.

"Golden Reign" and other Cigarettes. "Golden Reign" and other Tobaccos, and process of manufacturing same.

9 W. H. Bailey & Co., Hydraulic Engineers, Albion Works, Salford, Manchester.

Clock Tower. Turret Clock and Bells and Chiming Apparatus. The clock is on the system invented and patented by Mr. W. H. Bailey. It is on the lathe-bed principle, and fitted with Beckett's gravity escapement, the wheels are gun-metal, and the pinions of steel, and each wheel can be removed without interfering with the others, or any part of the mechanism. The clock dials are six-feet in diameter, and, in imitation of old clocks, the hands are only fitted. The hands are from the design of a clock 300 years ago, now existing in the Chetham College, Manchester. The hours and quarters are struck on bells cast by Messrs. W. H. Bailey & Co., and the total weight of bells is over one ton. The quarters are chimed in imitation of those in Saint Mary's College, Cambridge. Thirteen bells for Clock to strike the hours and quarters upon, and also for chiming tunes by hand on Ellacomb's system, improved and patented by Mr. W. H. Bailey. Total value of clock, bells, and chiming machinery, complete, £410. Turnstiles to the Bridge and Tower, manufactured and lent by W. H. Bailey & Co.

10 Harrison Patent Knitting Machine Co., 128, Portland-street, Manchester.

Knitting Machines, including New Embossed Pattern Knitting Machine. The New Glove Machine. The New Jacquard Machine. The New Automatic Fashioning Machine. The New Steam Power Machine, which stops automatically at the fashionings. The New Steam Power Jersey and Cardigan Machine. The New World's Star Circular Knitting Machine. The Steam Power Driving Arrangement for the World's Star. The New Harrison Patent Duplex Circular Knitting Machines. The New Hosiery Clothing Seaming Machines,

which makes all sizes of Elastic Stitches. Seaming and Taking-off Machine. Samples of Knitted Clothing and Hosiery. The Power Machines will be driven by Bailey & Co.'s Water Motor.

11 George Newton, 31, Dale-street, Manchester.

Umbrellas in Cotton, Alpaca, and Silk, suitable for Home and Export trades. Parasols for ditto. Walking Sticks for ditto. African Chiefs' Umbrellas and Tents, Tent Umbrellas for Lawns, &c.

11a Frances Wilkinson, Mansfield Chambers, St. Ann's Square, Manchester

Decorative Art Screens, Plaques, China, &c., and Decorative Art Needlework.

12 Thomas Parker & Sons, Confectioners, 18, St. Mary's Gate, and 10, St. Ann's Square, Manchester.

Wedding Cakes and Confectionery.

13 T. R. Withecomb, 16 and 18, Victoria-street, and 66, Market-street, Manchester.

Making and Repairing Pipes of Briarwood, Meerschaum, and other materials. Making Amber Cigar and Cigarette Tubes and Pipe Mouthpieces. Making Silver Screw and other Mounts for pipes, &c.

14 Mrs. E. Hart, Donegal House, Donegal Industrial Fund, 43, Wigmore House, London.

The "Kells" Embroideries. Hand Spinning and Hand-loom Weaving of Irish Homespuns. Hand-knitted Hosiery and Smallware. Hand-spun Linen. Hand-printed Linen. Hand Embroideries of all kinds, and Laces.

16 Elliot, Edminson, and Olney, 79, Deansgate, Manchester.

Repoussé Work in operation. Marble Mosaic Work (Italian) in operation.

17 A. Mackie, 23, Stadium-street, Chelsea, S.W.

Fist Class Shaving and Hair-cutting Saloon and Wig Making. Illustrations of the Ancient and New Styles of Hair-dressing for Ladies and for Gentlemen. The new Royal Alexandra Heliotrope Perfume.

18 London and County Photographic Co., 63, St. Paul's Churchyard, London.

Views of the Town Hall, Old Manchester Church, The Market-sted, and the Swan Coaching Office.

19 Broome, Hallworth, & Foster, St. Peter's Square, Manchester.

Fustian Cutting, applied to the production of the Pile in Velutina.

20 Alfred Tozer, Superintendent Fire Brigade, Manchester; Chief Fire Station, Jackson's Row, Manchester.

Fire Extinguishing Appliances. Brazen Hand Squirt, 1667 A Newsham Fire Engine, 1725. Firemen's Helmets, from about 1700, with Belts and Axes, and Speaking Trumpet. An Original Parchment Protection from being impressed either to serve on land or sea. Old Uniforms from 1798. Several Photographs and Engravings of Fires. Old Hose Unions, Branch-pipes and Stand-pipe. The Manchester Old Watchman's Billhook. Bell used by watchman after the curfew was abolished, with a complete set of Ricks used at different periods.

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FINE ARTS SECTION.

CATALOGUE.

ABBREVIATIONS FOR CATALOGUE EXPLAINED.

P.R.A.—President of the Royal Academy.
R.A.—Royal Academician.
A.R.A.—Associate of the Royal Academy.
R.S.A.—Royal Scottish Academician.
A.R.S.A.—Associate of Royal Scottish Academy.
P.R.H.A.—President of Royal Hibernian Academy.
R.H.A.—Royal Hibernian Academician.
R.W.S.—Member of Royal Society of Painters in Water Colours.
R.I.—Member of Royal Institute of Painters in Water Colours.
P.M.A.—President Manchester Academy.

OIL PAINTINGS.

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1 PENTONVILLE, BY SUNSET ..... *Isaac Holden, Esq.*

SEYMOUR LUCAS, A.R.A.

2 AFTER CULLODEN..... *Purchased by the President and Council of the Royal Academy, under the terms of the Chantrey Bequest, and lent by them.*

W. F. YEAMES, R.A.

3 A VISIT TO THE HAUNTED CHAMBER ..... *R. M. Knowles, Esq.*

HENRY WOODS, A.R.A.

4 WATER SELLERS, SAN ROCCO, VENICE ..... *C. F. Cundy, Esq.*

MAUDE GOODMAN

5 UN CHAUSON DES FLEURS ..... *B. Warwick Esq.*

MRS. BRIDELL-FOX

6 PORTRAIT OF W. J. FOX (d. 1864 Late M.P. for Oldham).. *Mrs. Bridell-Fox*

ALFRED GOODFELLOW.

7 ROOM OVER LOWER GATEWAY, CHETHAM'S HOSPITAL ..... *J. Brown, Esq.*

E. CROFTS, A.R.A.

8 IRONSIDES RETURNING FROM SACKING A CAVALIER'S HOUSE ... *John Rhodes, Esq.*

S. SIDLEY

9 THE RIGHT HON. HENRY FAWCETT, M.P. (d. 1884)... *Churchwardens and Overseers of the Parish of St. John, Hackney, London*

ELIZABETH BUTLER (Miss Thompson)

10 BALACLAVA ... *John Whitehead, Esq*

WILLIAM STOTT, OF OLDHAM.

11 THE BATHERS ... *The Artist*

H. W. B. DAVIS, R.A.

12 A PRAIRIE ... *Alfred Morrison, Esq.*

13 JUNE SHOWERS ... *Emil Reiss, Esq.*

14 EVENING ... *H. H. Bolton, Esq.*

SIR T. A. JONES, P.R.H.A.

15 RT. HON. SIR MAZIERE BRADY, BART. (d. 1871. Lord Chancellor of Ireland) ... *National Gallery of Ireland*

ELIZABETH BUTLER (Miss Thompson)

16 THE CONNAUGHT RANGERS ... *John Whitehead, Esq*

S. CARTER

17 GELERT ... *Richard Peacock, Esq., M.P.*

F. W. W. TOPHAM

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20 THE SHY PUPIL ... *William Slater, Esq*

W. HOLMAN HUNT

21 CLAUDIO AND ISABELLA ... *Thomas Ashton, Esq*

Claudio. Death is a fearful thing.
Isabella. And shamed life a hateful.

J. HAYLLAR

22 THE OLD MASTER ... *Corporation of Nottingham*

B. W. LEADER, A.R.A.

23 FEBRUARY FILL-DYKE ... *J. E. Wilson, Esq.*

C. J. LEWIS

24 AN OATFIELD, WEMILLE, ARTOIS ... *H. W. Elliott, Esq.*

ARTHUR STOCKS

25 A Rod in Pickle ..... *T. J. Hirst, Esq.*

E. LONG. R.A.

26 Mliss..... *T. J. Hirst, Esq.*

COLIN HUNTER, A.R.A.

27 The Herring Market at Sea ..... *City of Manchester*

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28 Preparation for the First Communion ..... *A. Palmer, Esq.*

W. C. ESTALL

29 Winter ..... *C. E. Redfern, Esq*

J. SANT, R.A.

30 Love Birds..... *The Artist*

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31 Leafy June ..... *J. Arthur Kenrick, Esq.*

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32 Miss Maud Waller ..... *C. Waller, Esq.*

W. HOLMAN HUNT

33 Professor Owen ..... *The Artist*

34 The Scapegoat (See "Leviticus," chap. xvi.) ..... *Lord Brassey*

35 The Shadow of Death..... *City of Manchester*

36 Strayed Sheep ..... *G. Lillie Craik, Esq.*

FRANK DILLON

37 Pyramids ..... *W. H. Wills, Esq.*

ROBERT CROZIER, P.M.A.

38 The Patriot..... *J. H. Sheldon, Esq.*

G. F. WATTS, R.A.

39 His Eminence Cardinal Manning..... *The Artist*

C. NAPIER HEMY

40 Mending Nets ..... *Thomas Wardle, Esq*

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41 Peaches ..... *Colonel Hargreaves*

ALFRED W. HUNT

42 Whitby—Evening ..... *W. Kenrick, Esq., M.P.*

L. P. SMYTHE

43 Boulogne Harbour Steps ..... *G. Findlay, Esq.*

A. W. HUNT.

44 Whitby—Morning ..... *W. Kenrick, Esq. M.P.*

C. W. COPE, R.A.

45 THE FIRST BORN .... *G. C. Dewhurst, Esq.*

T. GRAHAM

46 THE PASSING SALUTE ..... *J. D. Lawrie, Esq.*

FORD MADOX BROWN

47 WORK .... *City of Manchester*

At that time (1852) extensive excavations connected with the supply of water were going on in the neighbourhood, and seeing and studying as I did, daily, the British excavator, or navvy, as he designates himself, in the full swing of his activity, with his manly and picturesque costume, and with the rich glow of colour which exercise under a hot sun will impart, it appeared to me that he was at least as worthy of the powers of an English painter as the fishermen of the Adriatic, the peasants of the Campagna, or the Neapolitan lazzarone. These workers in manly health and strength are contrasted with the Pariah, who has never learned to work, and with the mental and spiritual workers, of whom Carlyle and F. D. Maurice were chosen as the types, apparently idle, looking on the whole scene. The lady, whose only work it is to dress and look beautiful for our pleasure, and a group of ragged, motherless children, who might arouse her interest if it could extend outside her own personality and her pet dog's luxury, with the pot-boy plying his trade with the navvies, and an infinitude of suggestive figures and material—all converge to the one idea of "Work."

J. S. NOBLE

48 LAZY MOMENTS ..... *S. Allday, Esq.*

F. MORGAN

49 SCHOOL BELLES ..... *John Thompson, Esq.*

F. W. W. TOPHAM

50 HOME AFTER SERVICE ..... *R. P. Steele, Esq.*

D. W. WYNFIELD.

51 THE LADIES' KNIGHT ..... *E. Hallam, Esq.*

"It was customary, when a knight was about to contend on behalf of the ladies of his country for his fair constituents to present him with a favour, to be worn on the occasion, truth it is that the Wednesday next before the solemn and devout resurrection of our blessed Saviour, I drew me near to the Queen of England and France (Elizabeth Woodville), to whom I am right humble servant, subject, and brother. And as I spoke to her Highness, on bended knee, I know not how it was, but the ladies of her court environed me about, and I took heed that they had given me a collar, to which was attached a flower of souvenance, enamelled, and in a manner of emprise," &c.—*Vide* "Letter from Sir Anthony Woodville, Knight for the Ladies of England, to the Count de la Roche, Knight for the Ladies of Burgundy."

HOWARD HELMICK

52 THE WAYWARD DAUGHTER ..... *W. Hawkins, Esq.*

L. P. SMYTHE

53 HARVEST OF THE SEA ..... *G. Findlay, Esq.*

WILLIAM PERCY

54 REV. GEORGE HENRY WELLS, M.A. ..... *Trustees of the Memorial Hall*

J. MACWHIRTER, A.R.A.

55 LOCH SCAVAIG, ISLE OF SKYE ..... *Lord Burton*

FORD MADOX BROWN

56 ROMEO AND JULIET ..... *James Leathart, Esq.*

W. F. YEAMES, R.A.

57 PRINCE ARTHUR AND HUBERT.....*City of Manchester*

"O, spare mine eyes! Though to no use but still to look on you."

King John, Act iv., scene 1.

MARCUS STONE, A.R.A.

58 EDWARD II. AND HIS FAVOURITE, PIERS GAVESTON.....*Geo. Fox, Esq.*

"Gaveston was not only the Adonis of the English Court but remarkable for his knightly prowess, graceful manners, and sparkling wit. It was the latter qualification which rendered him peculiarly displeasing to the English nobles, whom he was accustomed to deride and mimic for the amusement of his thoughtless Sovereign; nor was the Queen exempted when he was disposed to display his sarcastic powers."

GEORGE CHESTER

59 MARK LEMON (d. 1870. First Editor of *Punch*)....*W. H. Bradbury, Esq.*

C. NAPIER HEMY

60 SAVED ..... *A. G. Sandeman, Esq.*

WALTER C. HORSLEY

61 IN TIME OF NEED ..... *R. P. Harding, Esq.*

"In time of scarcity the women from the country districts round Cairo come into town to sell their ornaments in the Gold and Silver Bazaar."

E. PARTON

62 TWILIGHT ..... *Walter Towne, Esq.*

FORD MADOX BROWN

63 CROMWELL ON HIS FARM..... *W. Brockbank, Esq.*

W. MACLAREN

64 NEAPOLITAN FLOWER SELLER..... *John Brinton, Esq., M.P.*

ALBERT MOORE.

65 VENUS..... *W. Coltart, Esq.*

66 THE QUARTETTE.....*W. Coltart, Esq.*

G. W. MITCHELL

67 HYPATIA ..... *Charles Lucas, Esq.*

"On, up the nave, fresh shreds of her dress strewing the holy pavement—up the chancel steps themselves—up to the altar—right underneath the great still Christ, and there even those hell-hounds paused . . . . . She shook herself free from her tormentors, and springing back, rose for one moment to her full height, naked, snow-white, against the dusky mass around—shame and indignation in those wide clear eyes but not a stain of fear. With one hand she clasped her golden locks around her, the other long white arm was stretched upward toward the great still Christ appealing—who dare say in vain?—from man to God. Her lips were opened to speak; but the words that should have come from them reached God's ear alone; for in an instant Peter struck her down."—"*Hypatia,*" *chap. xxix., by Charles Kingsley.*

ERSKINE NICOL, A.R.A.

68 OUTWARD BOUND ..... *Jesse Haworth, Esq.*

69 HOMEWARD BOUND..... *Jesse Haworth, Esq.*

G. B. O'NEILL

70 THE OBSTINATE JURYMAN ..... *G. C. Dewhurst, Esq.*

F. D. HARDY

71 IN MEMORIAM .... *Daniel Thwaites, Esq.*

SEYMOUR LUCAS, A.R.A.

72 THE ELOPED ..... *William Knowles, Esq.*

T. ARMSTRONG

73 THE FOUNTAIN .... *W. L. Evans, Esq.*

H. HERKOMER, A.R.A.

74 HARD TIMES..... *City of Manchester*

D. MURRAY

75 LAST LEAVES ..... *G. W. Parker, Esq.*

EYRE CROWE, A.R.A.

76 DE FOE IN THE PILLORY..... ..... *J. L. Newall, Esq*

"July 31, 1703.—Daniel Foe, *alias* De Foe, this day stood in the pillory at Temple Bar, in pursuance of his sentence, given against him at the last sessions at the Old Bailey, for writing and publishing a seditious libel, entitled "The Shortest Way with the Dissenters.' "—*Vide* "*The London Gazette,*" 1703.

" . . . During his exhibition he was protected by the same friends from the missiles of his enemies, and the mob, instead of pelting him, resorted to the unmannerly act of drinking his health. Tradition reports that the machine, which was graced with one of the keenest wits of the day, was adorned with garlands. . . . On the very day of his exhibition he published his 'Hymn to the Pillory.'—*See Wilson's* "*Life of De Foe.*"

VICAT COLE, R.A.

77 BACKWATER ON THE THAMES ..... *Colonel A. H. Brown, M.P.*

R. REDGRAVE, R.A.

78 A WOODLAND MIRROR ..... *Lord Brassey*

BIRKET FOSTER

79 FORDING THE STREAM..... *B. Armitage, Esq.*

W. Q. ORCHARDSON, R.A.

80 THE FIRST DANCE ..... *Henry Tate. Esq.*

ARTHUR HOPKINS

81 SIGNALS OF DISTRESS ..... *G. B. Gregory, Esq.*

J. C. HORSLEY, R.A.

82 COMING DOWN TO DINNER .... *Henry Lee, Esq.*

BIRKET FOSTER

83 IN THE ISLE OF WIGHT ..... *James Johnson, Esq.*

W. P. FRITH, R.A.

84 DERBY DAY..... *E. Gambart, Esq.*

PETER GRAHAM, R.A.

85 BY THE LOCK..... *Samuel Armitage, Esq.*

G. H. BOUGHTON, A.R.A.

86 THE WRESTLERS ..... *John Rhodes, Esq.*

DAVID MURRAY, A.R.S.A.

87 MY LOVE HAS GONE A SAILING.....*Purchased by the President and Council of the Royal Academy, under the terms of the Chantrey Bequest, and lent by them*

G. A. STOREY, A.R.A.

88 THE BLUE GIRLS OF CANTERBURY ..... *R. M. Knowles, Esq.*

T. ARMSTRONG

89 THE THREE GRACES.....*Samuel Pope, Esq., Q.C.*

W. C. T. DOBSON, R.A.

90 THE PROSPEROUS DAY OF JOB..... ..... *James Houldsworth, Esq.*

"Oh, that I were as in months past, as in the days when God preserved me; as I was in the day of my youth. . . . . I was a father to the poor; and the cause, which I knew not, I searched out."—*Job xxix.*

JOHN FAED, R.S.A.

91 THE AULD CROCKERY MAN .... *John Rylands, Esq.*

J. MAC WHIRTER, A.R.A.

92 THE THREE GRACES..... *Henry Mason, Esq*

SCULPTURE.

H. CALDER MARSHALL, R.A.

92A Ophelia ..... *The Artist*

HAMO THORNYCROFT, A.R.A.

92B Lot's Wife (marble statue) ..... *The Artist*

GALLERY No. 2.

R. HOOKE

93 A Portrait ..... *R. W. Williamson, Esq.*

E. J. GREGORY, A.R.A.

94 Portrait of a Lady ..... *C. J. Galloway, Esq.*

SEYMOUR LUCAS, A.R.A.

95 A Suspicious Guest ..... *William Knowles, Esq.*

W. M'TAGGART, R.S.A.

96 Message from the Sea ..... *Albert Institute, Dundee.*

H. S. MARKS, R.A.

97 The Minstrels' Gallery ..... *T. A. Carter, Esq.*

"Item.—Paide to Ihon Catworthe and hys compagnie of mynstralls
lb. s. d.
for musicke at ye aforesaide banquette i : xii : vij."—*Grafton's Chronicle.*

A. STUART-WORTLEY.

98 Grouse Driving ..... *A. Stopford, Esq.*

W. LOGSDAIL

99 Venetian al Fresco ..... *Joseph Ruston, Esq.*

JOHN PETTIE, R.A.

100 A Jester's Merry Thought ..... *J. M. Keiller, Esq.*

101 Terms to the Besieged ..... *Henry Waring, Esq.*

102 Gentleman of the 17th Century ..... *S. Taylor Whitehead, Esq.*

103 Sir Peter and Lady Teazle ..... *C. F. Cundy, Esq.*

Sir Peter: Zounds, madam, you had no taste when you married me!
Lady T.: Very true, Sir Peter.—*School for Scandal.*

104 The Sisters ..... *David Price, Esq.*

105 Ho! Ho! Old Nol ..... *Humphrey Roberts, Esq.*

106 Gentleman of the 19th Century ..... *J. G. Orchar, Esq.*

107 The Laird ..... *J. G. Orchar, Esq.*

108 Dost Know this Waterfly? ..... *Charles Neck, Esq.*

B. W. LEADER, A.R.A.

109 WITH VERDURE CLAD ..... *C. W. Lea, Esq.*

MARK FISHER

110 A SCOTCH HILLSIDE ..... *Henry Galloway, Esq.*

J. FARQUHARSON

111 LIFE AT CAIRO..... ..... *The Artist*

ERSKINE NICOL, A.R.A.

112 BOTH PUZZLED ..... *C. F. H. Bolckow, Esq.*

"But, sir, if 'wanst' nought be nothin', then twice nought must be somethin,' for it's double what 'wanst' nought is."

—"*Hedge School,*" *by W. Carleton.*

W. J. MUCKLEY

113 AN OFFERING ..... *The Artist*

SIMEON SOLOMON

114 LOVE IN WINTER..... *W. Coltart, Esq.*

W. B. RICHMOND

115 DAUGHTERS OF THE DUKE OF ARGYLL..... ..... *Duke of Argyll*

ANDERSON HAGUE

116 BRACKEN GATHERERS..... *C. J. Galloway, Esq.*

T. SIDNEY COOPER, R.A.

117 DROVERS COLLECTING THEIR FLOCKS ON THE CUMBERLAND FELLS .... *Earl of Ellesmere.*

118 WAITING FOR HIRE..... ..... *E. Hallam, Esq.*

J. SYER

119 CORNISH COAST ..... *David Jardine, Esq.*

H. CLARENCE WHAITE

120 THIRLMERE ....*Mrs. Wilkinson*

T. SIDNEY COOPER, R.A.

121 EARLY NOVEMBER (a Contrast)..... .....*E. Hallam, Esq.*

C. T. BURT

122 YORKSHIRE MOORLAND..... *T. Hardcastle, Esq.*

MARCUS STONE, A.R.A

123 MY LADY IS A WIDOW AND CHILDLESS.....*J. S. Virtue, Esq.*

J. MACWHIRTER, A.R.A.

124 A WET DAY, VENICE ..... *Colonel Hargreaves*

OTTO WEBER

125 CAST A SHOE .....*Baron J. H. Schröder*

HENRY MOORE

126 CALM BEFORE A STORM ..... *The Artist*

J. W. WATERHOUSE, A.R.A.

127 A FLOWER MARKET AT OLD ROME ..... *J. T. Hirst, Esq.*

H. HERKOMER, A.R.A.

128 MR. ARCHIBALD FORBES (War Correspondent) ..... *The Artist*

129 MR. FRANK C. BURNAND (Editor of *Punch*) ..... *The Artist*

H. S. MARKS, R.A.

130 A TREATISE ON PARROTS ..... *George Holt, Esq.*

"Splendid in hue, and delicate in form,
God's feathered fairies, birds whose very effigies
In which but sound and movement back to life,
Plumage, shape, colour, all remaining still
Enchant the eye, and stir the dreaming heart;
And so the life-long lover of sweet fowls—
Old, calm, and solitary—feels the glow,
The love of science and the love of art,
Which stir the tender soul, yet strongly drawn,
To worship the Creator in His works."

131 THE ORNITHOLOGIST ..... *Daniel Thwaites, Esq.*

132 ST. FRANCIS PREACHING TO THE BIRDS ..... *Angus Holden, Esq.*

"The very sermon addressed by the Saint to such an audience still lives in the pages of his great biographer, Bonaventura. 'My little brothers,' it began, 'you should love and praise the Author of your being, who has clothed you with plumage and given you wings with which to fly wherever you will. You were the first created of all animals. He preserved your race in the ark. He has given the pure atmosphere for your dwelling-place. You sow not, neither do you reap. Without any care of your own, He gives you lofty trees to build your nests in, and watches over your young. Therefore, give praise to your bountiful Creator.'"—*Essays in Ecclesiastical Biography by Sir James Stephen, K.C.B.*

133 THE APOTHECARY ..... *H. J. Turner, Esq.*

"I do remember an apothecary,
And hereabouts he dwells, whom late I noted
In tattered weeds, with overwhelming brows,
Culling of simples; meagre were his looks;
Sharp misery had worn him to the bones:
And in his needy shop a tortoise hung,
An alligator stuffed, and other skins
Of ill-shaped fishes; and about his shelves
A beggarly account of empty boxes,
Green earthen pots, bladders, and musty seeds,
Remnants of pack thread, and old cakes of roses
Were thinly scattered, to make up a show.
Noting this penury, to myself I said,
An if a man did need a poison now,
Whose sale is present death in Mantua,
Here lives a caitiff wretch would sell it him."

"*Romeo and Juliet*," Act v., sc. i.

134 THE OLD CLOCK ..... *J. W. Haigh, Esq.*

R. LEHMANN

135 LADY MARTIN (Helen Faucit) ..... *Sir Theodore Martin*

EMMA MAGNUS

136 LICINIA, WIFE OF CAIUS GRACCHUS ..... *The Artist*

J. YATES CARRINGTON

137 J'Y SUIS, J'Y RESTE ..... *David Waterlow, Esq.*

W. FIELD

138 THE HARROW VIEW FROM HAMPSTEAD HEATH..... *The Artist*

HENRY MOORE, A.R.A.

139 MOUNT'S BAY ..... *City of Manchester*

R. H. WHITEHEAD.

140 THE AMATEUR ... . *The Artist.*

A. C. GOW, A.R.A.

141 THE LAST DAYS OF EDWARD VI. .... *The Artist.*

"As to the King's health, Sire, it is still the same as I wrote you on the 27th ult.: since then he has been shown at a window at Greenwich, where many saw him, but in such a plight, so weak and wasted, that the People said it was death. This was done because the Commons began to murmur, and to say that he was dead."—Letter of Ambassador Schefner to Charles V., July 14th, 1853.—Vide *Froude's History*, vol. v. page 514.

W. H. BARTLETT

142 SEAL FISHING..... *J. Fellowes, Esq.*

BASIL BRADLEY.

143 SPRINGTIME ON THE THAMES..... *J. Edward Reiss, Esq.*

T. SIDNEY COOPER, R.A.

144 SUMMER SHOWERS ..... *W. H. Crabtree, Esq.*

WILLIAM LINNELL.

145 HESPERUS ..... *G. C. Morrison, Esq.*

W. F. YEAMES, R.A.

146 PRISONERS OF WAR, 1805 ..... *The Artist*

ELIZABETH BUTLER (Miss Thompson.)

147 THE SCOUT ..... *Joseph Moseley, Esq.*

KATE PERUGINI

148 VIOLET AND URIEL (Daughters of John Parsons, Esq.) .....*The Artist*

C. E. PERUGINI

149 A LABOUR OF LOVE.....*Sir Henry Bessemer*

CLARA MONTALBA

150 THE LAST JOURNEY ..... *W. Ingram, Esq.*

E. HAYES, R.H.A.

151 TOWING A DISABLED BOAT..... *Dr. Orrock*

152 ST. SAMPSON'S BAY, GUERNSEY..... *A. T. Hollingsworth, Esq.*

FRED. BROWN

153 CANDIDATES FOR GIRTON ..... *Thomas Woodcock, Esq.*

R. BEAVIS.

154 THE MOUTH OF THE MAES ..... *R. P. Harding, Esq.*

W. W. OULESS, R.A.

155 THE LATE MR. WILLIAM SALE (an eminent Citizen of Manchester) .....*The Committee of the Clarendon Club*

156 ALDERMAN GOLDSCHMIDT (Mayor of Manchester, 1883-4, 1885-6. Presented to the City of Manchester by his Fellow-citizens) .....*City of Manchester*

157 MR. GEORGE SCHARF, C.B., F.S.A. (Director and Secretary of the National Portrait Gallery) ...*The Trustees of the National Portrait Gallery*

158 HIS EMINENCE CARDINAL NEWMAN..... *The Oratory, Birmingham*

159 THE HON. SIR HENRY MANISTY (one of the Judges of the High Court of Justice) .... *Sir Henry Manisty*

160 MR. H. D. POCHIN .... *H. D. Pochin, Esq.*

JOSEPH KNIGHT

161 AN APRIL DAY..... *Lieut.-Col. Mawson*

ALBERT MOORE

152 THE SISTERS .... *Humphrey Roberts, Esq.*

J. CLARK

163 MOTHER'S DARLING .....*Purchased by the President and Council of the Royal Academy under the terms of the Chantrey Bequest and lent by them.*

H. CARTER

164 AT THE LOOM ..... *H. H. Bolton, Esq*

JOHN COLLIER

165 THE LAST VOYAGE OF HENRY HUDSON .....(*Purchased by the President and Council of the Royal Academy under the terms of the Chantrey Bequest, and lent by them.*)

Henry Hudson, the great navigator, made his last voyage to the Polar Seas in 1610. In the summer of 1611 his crew mutinied and set him adrift in an open boat, with his son, John Hudson, and some of the most inferior of the sailors. They were never heard of more.

W. LOGSDAIL

166 THE PIAZZA, VENICE ..... *Joseph Ruston, Esq.*

W. J. SHAW

167 TINTAGEL ..... *The Artist*

F. B. BARWELL

168 UNACCREDITED HEROES ..... *The Artist*

PETER GRAHAM, R.A.

169 SPATE IN THE HIGHLANDS ..... *Sir William C. Brookes, Bart., M.P.*

YEEND KING

170 COURTYARD OF MUSEÉ DE CLUNY, PARIS ..... *Thomas Wardle, Esq.*

FRANK DICKSEE, A.R.A.

171 HARMONY ... *Purchased by the President and Council of the Royal Academy under the terms of the Chantrey Bequest, and lent by them.*

C. E. JOHNSON

172 GURTH, THE SWINEHERD ..... *Purchased by the President of the Council of the Royal Academy under the terms of the Chantrey Bequest, and lent by them.*

J. BRETT, A.R.A.

173 BRITANNIA'S REALM ... *Purchased by the President and Council of the Royal Academy, under the terms of the Chantrey Bequest, and lent by them.*

W. FIELD

174 PERSECUTED, BUT NOT FORSAKEN (Hampstead Heath, during the Five Mile Act in 1687) ..... *W. Wills, Esq.*

"Puritan congregations could meet only by night or in waste places. . . . . Death being denounced to both preachers and hearers."—*Macaulay*

J. MACWHIRTER, A.R.A.

175 THE TRACK OF THE HURRICANE ..... *W. Lockett Agnew, Esq.*

HILDA MONTALBA

176 LAKE SEVELANGEN, SWEDEN ..... *The Artist*

F. GOODALL, R.A.

177 REBECCA AT THE WELL ..... *C. F. H. Bolckow, Esq.*

178 SUBSIDING OF THE NILE ..... *C. F. H. Bolckow, Esq.*

MARCUS STONE, A.R.A.

179 "IL Y EN A TOUJOURS UN AUTRE" ..... *Purchased by the President and Council of the Royal Academy, under the terms of the Chantrey Bequest, and lent by them.*

C. E. JOHNSON

180 In the Midlands—Cub Hunting .....*J. H. Cooper, Esq.*

JOHN BRETT, A.R.A.

181 The Grey of the Morning.....*C. H. Hawkins, Esq.*

"The ripples whispered to the mussels in the grey of the morning, and the lily-white clouds got up early and peeped over the wall."—*Old Play.*

F. W. JACKSON

182 Village by the North Sea.....*The Artist*

F. HOLL, R.A.

183 Gone ! .....*Mrs. Thomas Agnew*

E. HARGITT

184 A Dorsetshire Moor.....*The Artist*

HAMILTON MACCALLUM

185 Coral Fishing in the Gulf of Salerno .....*C. C. Wyllie, Esq.*

PETER GRAHAM, R.A.

186 The Inflowing Tide .....*G. B. Worthington, Esq.*

SCULPTURE

H. CALDER MARSHALL, R.A.

186A Throwing Sabrina into the Severn .....*The Artist*

HAMO THORNYCROFT, A.R.A.

186B The Sower .....*The Artist*

GALLERY No. 3.

A. HUGHES

187 APRIL LOVE.....*J. F. Hutton, Esq.*

E. BURNE JONES, A.R.A.

188 PAN AND PSYCHE ..... *George Hamilton, Esq.*

"And with that word she leapt into the stream,
But the kind river even yet did deem
That she should live, and, with all gentle care,
Cast her ashore within a meadow fair,
Upon the other side, where Shepherd Pan
Sat looking down upon the water wan,
Goat-legged and merry, who called out 'Fair maid,
Why goest thou hurrying to the feeble shade
Whence none return? Well do I know thy pain,
For I am old, and have not lived in vain.
Thou wilt forget all that within a while,
And on some other happy youth will smile;
And sure he must be dull indeed if he
Forget not all things in his ecstasy
At sight of such a wonder made for him.'"

—*Vide "Earthly Paradise," by William Morri*

W. B. RICHMOND

189 DAUGHTERS OF THE DEAN OF CHRIST CHURCH... *Dean of Christ Church*

F. MADOX BROWN

190 DON JUAN .....*F. Craven, Esq.*

G. R. SPENCER-STANHOPE

191 LOVE AND THE MAIDEN ..... *Sir Edward Green, Bart.*

WALTER CRANE

192 THE BRIDGE OF LIFE.....*The Artist*

"What is life? A bridge that ever
Bears a throng across a river,
There the Taker, here the Giver."

M. GOODMAN

193 RIVAL BLOSSOMS .....*W. Cooke, Esq.*

F. SANDYS

194 MRS. ROSE .....*A. Rose, Esq.*
195 MRS. BARSTOW .....*T. J. Barstow, Esq.*

J. B. BURGESS, A.R.A.

196 TROUBLES IN THE CHURCH .....*W. H. Houldsworth, Esq., M.P.*

E. BURNE JONES, A.R.A.

197 THE WHEEL OF FORTUNE ....*Rt. Hon. A. J. Balfour, M.P.*
198 THE FEAST OF PELEUS .....*W. Kenrick, Esq., M.P.*
199 THE STORY OF PYGMALION. (The heart desires.)...*Frederick Craven, Esq.*
200 THE STORY OF PYGMALION. (The hand refrains.)...*Frederick Craven, Esq.*
201 THE STORY OF PYGMALION. (The godhead fires.) ...*Frederick Craven, Esq.*
202 THE STORY OF PYGMALION. (The soul attains.) ...*Frederick Craven, Esq*
203 SIBYLLA CUMÆ ..... *William Agnew, Esq.*
204 SIBYLLA DELPHICA.....*Corporation of Manchester*
205 LE CHANT D'AMOUR ..... *Joseph Ruston, Esq.*
206 THE GOLDEN STAIR..... ....*Cyril Flower, Esq., M.P.*
207 THE MORNING OF THE RESURRECTION .... *Mrs. Dyson Perrins*

J. F. SHIELDS

208 LAZARUS ....*Mrs. Russell Gurney*

"The dead shall hear the voice of the Son of God."

G. J. SPENCER STANHOPE

209 THE STYX.....*Joseph Moseley, Esq.*

W. GALE

210 ABRAHAM AND ISAAC .....*E. Darbyshire, Esq.*

R. LEHMANN

211 OUT OF THE WORLD .....*H. Schlesinger, Esq.*

"Me vivum in silva fecit natura tacere:
Me cæsum ars cogit, dulse sonare loqui."

"Living a woodland tree, to be dumb was decreed me by nature:
Dead, how I sing, how I speak! such is the magic of art."

H. LE JEUNE, A.R.A.

212 THE DEAD ROBIN .....*G. C. Dewhurst, Esq.*

E. J. POYNTER, R.A.

213 AN OFFERING TO ISIS ..... *W. Brockbank, Esq.*

J. E. HODGSON, R.A.

214 THE ARMOURER ....*H. J. Turner, Esq.*

W. GALE

215 WAITING PLACE OF THE JEWS AT JERUSALEM..... *J. Rhodes, Esq.*

PHILIP BURNE JONES

216 AN UNPAINTED MASTERPIECE ....*E. Naylor, Esq.*

"The room spoke most plaintively for itself. Shabby, sordid, naked, it contained beyond the wretched bed but the scantiest provision for personal comfort. It was bedroom at once and studio—a grim ghost of a studio. . . . Its only wealth was the picture on the easel, presumably the famous Madonna. . . . A canvas that was a mere dead blank, cracked and discoloured by time. This was his immortal work!—the Madonna of the Future."—HENRY JAMES.

WALTER CRANE

217 FREEDOM ..... *The Artist*

W. GALE

218 AN EASTERN MAIDEN ..... *Henry Evill, Esq.*

E. J. POYNTER, R.A.

219 A SUPPLIANT TO VENUS ..... *W. Brockbank, Esq.*

J. E. HODGSON, R.A.

220 A NEEDY KNIFE GRINDER ..... *H. J. Turner, Esq.*

A. PARSONS

221 MEADOWS BY THE AVON ..... *Corporation of Oldham*

LUKE FILDES, R.A.

222 THE VILLAGE WEDDING ..... *E. Booth, Esq.*

ARTHUR H. MARSH

223 HOMELESS ..... *W. Carver, Esq.*

J. O'CONNOR

224 MARKET PLACE, VICENZA ..... *Isaac Holden, Esq., M.P.*

W. F. YEAMES, R.A.

225 THE TOAST OF THE KIT-CAT CLUB ..... *R. Dawber, Esq.*

It having fallen to the turn of the Duke of Kingston to propose a beauty as the Annual Toast of the Club, he nominated his little daughter, Lady Mary Pierrepoint (afterwards Lady Mary Wortley Montague). Some of the members demurred, as they had not seen her. The Duke sent for her, and when she arrived she was received with acclamations, her claim unanimously allowed, and she was petted and caressed by all the eminent men present, including Addison, Steele, Marlborough, Congreve, &c.

E. LONG, R.A.

226 BARONESS BURDETT-COUTTS ..... *Baroness Burdett-Coutts*

J. C. HORSLEY, R.A.

227 CHECKMATE—NEXT MOVE ..... *T. Jessop, Esq.*

E. BARCLAY

228 SPORTING WITH THE LEAVES AT FALL ..... *The Artist*

H. W. B. DAVIS, R.A.

229 SEA AND LAND WAVES ..... *Charles Churchill, Esq.*

LUKE FILDES, R.A.

230 VENETIANS ..... *City of Manchester*

J. C. HOOK, R.A.

231 Baiting for Haddock ..... *Mrs. Reiss*

232 Cow-Tending ..... *David Price, Esq.*

233 A Sea Piece ..... *Sir J. E. Millais, Bart., R.A.*

234 Wise Saws ..... *Charles Churchill, Esq.*

"Am I both priest and clerk? Well then, amen."—*King Richard II., Act iv., sc. i.*

235 King Baby—The White Sands of Iona ..... *John Pender, Esq.*

J. AUMONIER

236 The Last Load ..... *J. L. Kennedy, Esq.*

H. W. B. DAVIS, R.A.

237 The Lowing Herd Winds Slowly o'er the Lea... *F. W. Grafton, Esq.*

E. HUGHES

238 Hon. Mrs. W. Carrington ..... *Hon. Col. Carrington*

CLARA MONTALBA

239 St. Mark's, Venice, The Piazzetta Inundated .....*The Artist*

J. C. HORSLEY, R.A.

240 The Banker's Private Room—Negotiating A Loan.....*Trustees of the Royal Holloway College*

KEELEY HALSWELLE, R.S.A.

241 Royal Windsor ..... *Colonel Hargreaves*

LUKE FILDES, R.A.

242 The Return of the Penitent ..... *Holbrook Gaskell, Esq.*

"And every woe a tear may claim
Except an erring sister's shame."—*Byron.*

R. BEAVIS

243 Ploughing in Lower Egypt ..... *E. Armitage, Esq.*

J. C. HORSLEY, R.A.

244 Rent Day at Haddon Hall ..... *A. C. Burnand, Esq.*

VAL C. PRINSEP, A.R.A.

245 An Afternoon Gossip on the Banks of the Ganges ..... *The Artist*

G. F. WATTS, R.A.

246 Mrs. Henry Manners (painted in 1881) ..... *The Artist*

247 John Lothrop Motley ..... *The Artist*

American Historian. Born 1814; published "Rise of the Dutch Republic," 1856; "History of the United Netherlands," 1860-7; Life and Death of John Barneveld," 1874; United States Minister at Vienna, 1861-7; at London, 1869-70. Died 1877.

G. F. WATTS, R.A.—*continued.*

248 William Morris (poet). .. .. *The Artist*
249 Haystacks ..... *The Artist*
250 Psyche.....*Purchased by the President and Council of the Royal Academy, under the terms of the Chantrey Bequest, and lent by them.*
251 Sir J. E. Millais, Bart, R.A.....*Sir J. E. Millias, Bart., R.A.*
252 Matthew Arnold (poet; born 1822. Inspector of schools, 1851; Professor of Poetry, Oxford, 1857-67)..... *The Artist*
253 Love and Death .... *The Artist*
254 Sir Frederick Leighton, Bart., P.R.A....*Sir Frederick Leighton, Bart.*
255 The Angel of Death.....*Samuel Barlow, Esq.*
256 Hope.....*The Artist*
257 Alfred Tennyson, D.C.L. (Poet Laureate) .....*The Artist*
258 G. F. Watts, Esq., R.A ..... *Sir Wm. Bowman, Bart.*
259 Love and Life ..... *The Artist*
260 Earl Lytton ("Owen Meredith." Born 1831; entered diplomatic service, 1849; author of "Clytemnestra," &c.; succeeded his father, January, 1873; ambassador at Lisbon, December, 1874; Viceroy of India, 1876)... *The Artist*
261 E. Burne Jones, Esq., A.R.A. ..... *E. B. Jones, Esq., A.R.A.*
262 Carrara Mountains..... *Sir Horace Davey*
263 Mount Ararat ..... *William Carver, Esq.*
264 Algernon Charles Swinburne (poet; born 1837) .....*The Artist*
265 Watchman! What of the Night?..... *Mrs. Dyson Perrins*
266 Sir William Bowman, Bart. ..... *Sir William Bowman, Bart.*
267 Philip Hermogenès Calderon, R.A. ..... *The Artist*
268 Una and the Red Cross Knight..... *William Carver, Esq.*

VAL C. PRINSEP, A.R.A.

269 At the Golden Gate ..... *City of Manchester*

FORD MADOX BROWN

270 The Coat of Many Colours..... *J. F. Hutton, Esq.*

R. W. MACBETH, A.R.A.

271 The Sodden Fen..... ..... *H. Harker, Esq.*

MARK FISHER

272 On the Cam ..... *C. J. Galloway, Esq.*

J. AUMONIER

273 A Suffolk Marsh ..... *John Galloway, Jun., Esq.*

P. H. CALDERON, R.A.

274 HOME AFTER VICTORY ..... *E. Hallam, Esq.*

275 HOME THEY BROUGHT HER WARRIOR DEAD..... *Angus Holden, Esq.*

"Home they brought her warrior dead,
She nor swoon'd nor utter'd cry,
All her maidens, watching, said,
'She must weep, or she will die.'

. . . . . .

"Rose a nurse of ninety years,
Set his child upon her knee:
Like summer tempest came her tears:
'Sweet, my child, I live for thee.'"

Tennyson.

276 AN INCIDENT OF THE WAR IN LA VENDEE .....*C. F. H. Bolckow, Esq.*

J. LAMONT BRODIE

277 OUTLAWED ..... *The Artist*

ARTHUR H. MARSH

278 HEIGHO! THE WIND AND THE RAIN .....*John Rogerson, Esq.*

MARCUS STONE, R.A.

279 THE LOST BIRD ..... *City of Manchester*

VICAT COLE, R.A.

280 SUMMER RAIN ..... *A. G. Sandeman, Esq.*

G. D. LESLIE, R.A.

281 WAITING FOR THE FERRY .... *C. E. Lees, Esq.*

282 A PASTORAL..... *Samuel Armitage, Esq.*

283 A PASTORAL (the companion)..... *Samuel Armitage, Esq.*

284 SCHOOL REVISITED ..... *James Houldsworth, Esq.*

C. H. POINGDESTRE

285 ROMAN CATTLE MARKET .....*Mrs. C. Tarratt*

PETER GRAHAM, R.A.

286 A MOUNTAIN ROAD .... *F. W. Grafton, Esq.*

C. W. COPE, R.A.

287 CONTEMPLATION ... . *Mrs. James Radcliffe*

"Struck with deep joy,
Silent with swimming sense; gaze till all doth seem
Less gross than bodily: and of such hues
As veil the Almighty Spirit, when yet He makes
Spirits perceive his presence."—*Coleridge.*

F. A. WINKFIELD

288 THE THAMES AT GREENWICH ..... *The Artist*

C. W. WYLLIE

289 THE MIGHTY FALLEN ..... *Sydney Castle, Esq.*

G. D. LESLIE, R.A.

290 POT-POURRI (rose leaves and lavender) ..... *T. H. Ismay, Esq.*

291 FORTUNES ..... *William Waring, Esq.*

"For maiden tongues of love will talk,
And all their fancies turn on love;
And when we pulled the tender stalk,
And the fair flowers about it wove,

And flung it in the tiny torrent,
'This he, and this is I,' we cried,
'As fare her flowers by wind and current,
To each shall weal or woe betide.'"

292 AT THE FOUNTAIN ..... *Colonel Hargreaves*

ARTHUR H. MARSH

293 THE WIDOWER ..... *H. Boddington, Esq.*

J. W. OAKES, A.R.A.

294 THE LAST GLEAM ..... *The Artist*

J. MACWHIRTER, A.R.A.

295 FISHERMAN'S HAVEN ..... *Charles Moxon, Esq.*

FRANK DICKSEE, A.R.A.

296 EVANGELINE ..... *W. H. Greenfield, Esq.*

"Vainly Evangeline strove with words and caresses to cheer him."—*Longfellow.*

SIR F. LEIGHTON, P.R.A.

296A THE SLUGGARD ..... *The Artist*

S. ONSLOW FORD

296B DIRGE ..... *The Artist*

GALLERY No. 4.

H. H. COULDERY

297 An Oyster Supper.....*Corporation of Nottingham*

T. FAED, R.A.

298 Farewell to Erin.....*Andrew Knowles, jun., Esq.*
299 A New War to an Old Soldier .....*James Taylor, Esq.*

F. W. W. TOPHAM

300 Convent of San Francesco ..... *J. C. Haslam, Esq.*

T. FAED, R.A.

301 The Forester's Family.....*R. Hurst, Esq.*

W. P. FRITH, R.A.

302 Sir Roger de Coverley at the Saracen's Head... *H. G. Crews, Esq.*

J. C. HORSLEY, R.A.

303 The Pet of the Common..... .. *James Taylor, Esq.*

J. C. HOOK, R.A.

304 The Skipper Ashore..... *S. G. Holland, Esq.*

T. FAED, R.A.

305 The Seamstress ....*James Jardine, Esq.*

S. CARTER

306 Young Foxes .....*Col. Hargreaves.*

H. WOODS, A.R.A.

307 The Market Place at the Foot of the Rialto .....*Louis Huth, Esq.*

G. D. LESLIE, R.A.

308 Polly Peachum.....*W. H. Houldsworth, Esq., M.P*

MRS. ALMA TADEMA.

309 Put in the Corner .....*The Artist*

W. C. T. DOBSON, R.A.

310 At the Fountain .....*Edwin Hilton, Esq*

L. ALMA TADEMA, R.A.

311 The Painter's Studio .....*E. Gambart, Esq.*
312 The Apodyterium ..... *S. Joshua, Esq.*
313 Rose of all the Roses ..... *Holbrook Gaskell, Esq.*
314 Pomona Festival.....*William Imrie, Esq.*
315 An Oleander..... .....*Henry Mason, Esq.*
316 Festival of the Vintage..... ..... *Baron Schröder*

L. ALMA TADEMA, R.A.—*continued.*

317 The Parting Kiss.....*Henry Mason, Esq.*
318 The Sculptor's Studio.....*E. Gambart, Esq.*
319 Ave Cæsar, io Saturnalia.....*Mrs. Dyson Perrins*
320 Hide and Seek.....*John Fielden, Esq.*
321 The Siesta .....*James Orrock, Esq.*

R. BEAVIS

322 Squally Weather on the Maes .....*H. G. Crews, Esq.*

KEELEY HALSWELLE

323 Autumn—Woods below Streatley ..... *E. Atkinson, Esq.*

WILLIAM ROBINSON

324 Upper Eskdale .....*The Artist*

G. H. BOUGHTON, A.R.A.

325 Rose Standish (the Puritan Maiden) .....*Benjamin Armitage, Esq.*
326 A New England Witch ..... *Col. Hargreaves*

C. E. PERUGINI

327 The Loom ..... *William Imrie, Esq.*

SIMEON SOLOMON

328 Hosanna! .....*J. F. Hutton, Esq.*

W. P. FRITH, R.A.

329 Sweet Ann Page..... *G. C. Dewhurst, Esq*

T. ARMSTRONG

330 A Music Piece ..... *Joseph Walker, Esq.*

C. E. PERUGINI

331 Fresh Lavender .....*Wakefield Christy, Esq.*

MRS. ALMA TADEMA

332 Settling a Difference .....*W. H. Tate, Esq.*

L. ALMA TADEMA, R.A.

333 A Question .....*Mrs. Schlesinger*

J. R. HERBERT, R.A.

334 King Lear Disinheriting Cordelia ..... *Edward Chapman, Esq.*

Lear. So young, and so untender?
Cordelia. So young, my lord, and true.
Lear. Let it be so. Thy truth then be thy dower.
For by the sacred radiance of the sun;
. . . . . .
Here I disclaim all my paternal care,
Propinquity and property of blood,
And as a stranger to my heart and me
Hold thee, from this, for ever.—*Act. 1, sc. 1.*

E. RADFORD

335 WEARY ..... *Merton R. Cotes, Esq., F.G.S.*

W. P. FRITH, R.A.

336 THE GLEANER ..... *G. C. Dewhurst, Esq.*

F. GOODALL, R.A.

337 SONG OF THE NUBIAN SLAVE..... *J. L. Kennedy, Esq.*

J. D. WATSON

338 THE YEOMAN'S WEDDING ..... *Henry Whitehead, Esq.*

VICAT COLE, R.A.

339 RIPENING SUNBEAMS .... *Lord Brassey*

"Half-veiled in golden light of shimmering air
The landscape stretches wondrously fair,
No paling beauty anywhere;
Nature is in her prime.

In richest robes the hills and woods appear,
The lakes and springs lie motionless and clear,
Ruled by the fairest Queen of all the year,
Beautiful harvest time."

—*Poems of England.*

W. BRIGHT MORRIS

340 AFTER THE DAY'S WORK ....*J. W. Haigh, Esq.*

J. C. HORSLEY, R.A.

341 STOLEN GLANCES..... ..... *Richard Hurst, Esq.*

342 THE DUENNA'S RETURN .....*T. Burnand, Esq.*

FREDERICK MORGAN

343 THE EMIGRANT'S DEPARTURE .....*Benjamin Armitage, Esq*

W. P. FRITH, R.A.

344 ENGLISH MERRY MAKING IN THE OLDEN TIMES..... *Mrs. Bolckow*

"When the merry bells ring round,
And the jocund rebecks sound,
To many a youth and many a maid,
Dancing in the chequered shade;
And young and old come forth to play,
On a sunshine holiday."—*Milton's "L'Allegro."*

C. W. RADCLIFFE.

345 SOLVA HARBOUR .....*The Artist*

W. W. OULESS, R.A.

346 H. STACEY MARKS, ESQ., R.A. ..... *The Artist*

W. P. FRITH, R.A.

347 BEFORE DINNER AT BOSWELL'S LODGINGS IN BOND STREET, 1769 *W. Tattersall, Esq.*

"Present—Johnson, Garrick, Goldsmith, Reynolds, Murphy, Bickerstaff, Davies and Boswell. Garrick played round Dr. Johnson with a fond vivacity, taking hold of the breasts of his coat, and, looking up in his face with a lively archness, complimented him on the good health he seemed then to enjoy, while the sage, shaking his head, beheld him with a gentle complacency. One of the company not being come at the appointed time, Goldsmith, to divert the tedious minutes, strutted about bragging of his dress, and I believe was seriously vain of it, for his mind was wonderfully prone to such impressions. 'Well, let me tell you,' said he, 'when my tailor brought home my bloom-coloured coat, he said, "Sir, I have a favour to beg of you: when anybody asks you who made your clothes, be pleased to mention John Filby, at the Harrow, in Water Lane."'"—*See Boswell's "Life of Johnson."*

H. W. B. DAVIS, R.A.

348 CONTENTMENT ..... *A. C. Armitage, Esq.*

W. P. FRITH, R.A.

349 RAMSGATE SANDS ..... *Her Majesty the Queen*

CHARLES J. LEWIS.

350 A SANFOIN FIELD ..... *Charles Winn, Esq.*

"When shepherds pipe on oaten straws
And merry larks are ploughman's clocks."

SIR J. E. MILLAIS, BART., R.A.

351 T. OLDHAM BARLOW, ESQ., R.A. ..... *T. J. Jones, Esq.*

W. P. FRITH, R.A.

352 HOGARTH ARRESTED AS A SPY, AND TAKEN BEFORE THE GOVERNOR OF CALAIS ..... *Mrs. Thomas Agnew*

"Hogarth has run a great risk since the peace; he went to France, accompanied by some friends, and was so imprudent as to be taking a sketch of the drawbridge at Calais. He was seized and carried to the Governor, where he was obliged to prove his vocation by producing several caricatures, &c., such as would by no means serve the purpose of an engineer. He was told by the Governor that, had not the peace been actually signed, he should have hung him immediately on the ramparts."
—*Horace Walpole's Letters.*

353 COMING OF AGE IN THE OLDEN TIME ..... *Edward Chapman, Esq.*

R. W. MACBETH, A.R.A.

354 A FEN LODE ..... *H. Harker Esq.*

J. MACWHIRTER, A.R.A.

355 NATURE'S MIRROR ..... *J. W. Haigh, Esq.*

J. C. HORSLEY, R.A.

356 THE DUENNA AND HER CARES ..... *Mrs. James Radcliffe*

E. DOUGLAS

357 A JERSEY FAMILY ..... *H. Graves, Esq.*

VICAT COLE, R.A.

358 HAYTIME..... *A. C. Armitage, Esq.*

HAYNES-WILLIAMS

359 ARS LONGA, VITA BREVIS..... *Henry Tate, Esq.*

"Short life ebbs fast;
But still the pathos of the saddened eye
Strains at the art, that shall outlive the life;
And, painter more than lover, he that soon
Shall pass away and leave the loved, long art,
Gazes, with dreamy soul upon his work."—*Old Play.*

E. CROFTS, A.R.A.

360 ON THE EVENING OF THE BATTLE OF WATERLOO. *Corporation of Liverpool*

"At Genappe, the first important defile through which the French army retired, an immense number of carriages and wagons of all kinds had been collected together, which presented a rich booty to the Prussians, but the most valuable and most interesting object consisted of Napoleon's travelling carriage, which, with all its contents, fell into the hands of the 15th Regiment. He himself had only quitted it a few minutes previously in such haste as to leave behind his hat, which was found inside."—*See Siborne's "History of the War in France and Belgium."*

E. BLAIR LEIGHTON

361 HE LOV'D AND RODE AWAY ..... *J. W. Radcliffe, Esq.*

HEYWOOD HARDY

362 THE MORNING BATH .....*Joseph J. Armitage, Esq.*

BRITON RIVIERE, R.A.

363 IN MANUS TUAS, DOMINE! .... *Abraham Haworth, Esq.*

364 DANIEL IN THE LIONS' DEN .....*T. H. Ismay, Esq.*

365 CIRCE AND THE COMPANIONS OF ULYSSES .....*Mr. J. K. Cross*

"She touched them with a rod that wrought
Their transformation far past human wants;
Swines' snouts, swines' bodies, took they, bristles, grunts,
But still retain'd the souls they had before,
Which made them mourn their bodies' change the more."
Chapman's "Odyssey" (Book X.)

J. HEYS DAVIES.

366 UNDER THE OPENING EYELIDS OF THE MORN ... *C. J. Galloway, Esq.*

BRITON RIVIERE, R.A.

367 A Stern Chase is always a Long Chase ... *Humphrey Roberts, Esq.*

368 Ulysses and Argus ..... *Samuel Armitage, Esq.*

"And upon Argus came the death-fate drear,
Just having seen Odysseus in the twentieth year."
—*Worsley's "Odyssey."*

C. E. HOLLOWAY

369 On the Thames ..... *James Kay, Esq.*

BRITON RIVIERE, R.A.

370 Playfellows .....*Jesse Haworth, Esq.*

371 His Only Friend .....*Jesse Haworth, Esq.*

372 The King and His Satellites ..... *F. W. Grafton Esq.*

HERBERT JOHNSTONE

373 A Portrait .....*The Artist*

R. CATON-WOODVILLE

374 Maiwand—Saving the Guns.....*Corporation of Liverpool*

The defeat of the British and native troops at the battle of Maiwand, Afghanistan, October, 1880, will long be remembered as an instance of the folly of under-estimating the strength of an enemy. Here a contingent of the Royal Horse Artillery, after performing all that bravery could achieve against overwhelming numbers, is compelled to retreat, bearing away dead and wounded (men and officers). But for the cavalry making repeated charges in order to cover the retreat, notwithstanding the most desperate valour, the heroic little band would not have accomplished the brilliant feat of saving the guns.

H. WOODS, A.R.A.

375 Venetian Fan Sellers ....*James Barrow, Esq.*

G. F. WATTS, R.A.

376 Little Red Riding Hood.....*Sir W. Bowman, Bart.*

BRITON RIVIERE, R.A.

377 An Anxious Moment .....*William Agnew, Esq.*

ANDREW C. GOW, A.R.A.

378 Cromwell at Dunbar.....*Purchased by the President and Council of the Royal Academy, under the terms of the Chantrey Bequest, and lent by them.*

"The Scotch army is shivered to utter ruin, rushes in tumultuous wreck hither, thither. . . . . The Lord General made a halt, says Hodgson, sang the 117th Psalm, till our horse could gather for the chase."—*Carlyle, "Cromwell's Letters."*

BASIL BRADLEY

379 May Time on the Thames..... *Edward Brook, Esq.*

W. Q. ORCHARDSON, R.A.

380 MARIAGE DE CONVENANCE ..... *Alfred Shuttleworth, Esq.*

381 CHARLES MOXON, ESQ. ..... *Charles Moxon, Esq.*

382 HOUSEKEEPING IN THE HONEYMOON ..... *Charles Churchill, Esq.*

383 THE MARKET GIRL FROM THE LIDO ..... *Mrs. Richard Johnson*

384 HARD HIT! ..... *Humphrey Roberts, Esq.*

385 PORTRAIT OF A LADY ..... *The Artist*

386 A TENDER CHORD ..... *Humphrey Roberts, Esq.*

"Have I forgot the words? Faith! they are sadder than I thought they were."

387 ALONE ..... *J. M. Keiller, Esq.*

388 NAPOLEON ON BOARD H.M.S. "BELLEROPHON," JULY 23RD, 1815, OFF USHANT; LEAVING FRANCE.—*Purchased by the President and Council of the Royal Academy under the terms of the Chantrey Bequest, and lent by them.*

"Napoleon remained on deck great part of the morning. He cast many a melancholy look at the coast of France."—*Mentland's Narrative.*

A. F. MUTRIE

389 ROSES ..... *Sir W. Cunliffe Brookes, Bart., M.P.*

OTTO WEBER

390 SPRINGTIME ..... *Baron J. H. Schröder*

EDWIN ELLIS

391 THE HAVEN UNDER THE HILL ..... *City of Manchester*

E. LONG, R.A.

392 HENRY IRVING, AS RICHARD, DUKE OF GLO'STER ... *Baroness Burdett-Coutts*

T. FAED, R.A.

393 WHERE IS MY GOOD LITTLE GIRL? ..... *F. W. Grafton, Esq.*

394 WORN OUT ..... *Daniel Thwaites, Esq.*

395 THE POOR, THE POOR MAN'S FRIEND ..... *Duchess of Montrose*

"The poor, the poor man's friend,
The blind man's at the door."

396 BAITH FAITHER AND MITHER ..... *C. F. H. Bo'ckow, Esq.*

"He was faither and mither, and a' things tae me."—*Ballantine.*

397 THE SILKEN GOWN ..... *C. F. H. Bolckow, Esq.*

"And ye shall walk in silk attire
And siller ha'e to spare,
Gin ye'll consent to be his bride
Nor think o' Donald mair.
Oh! wha wad buy a silken gown
Wi' a poor broken heart?
Or what's t' me a siller crown,
Gin frae my love I part?"

VICAT COLE, R.A.

398 IFFLEY MILL—A WINDY DAY ..... *Alfred Shuttleworth, Esq.*

H. HERKOMER, A.R.A.

399 PORTRAIT OF HIS FATHER .... *The Artist*

R. BEAVIS

400 THE CHARCOAL BURNER .....*R. M. Knowles, Esq.*

SCULPTURE.

SIR F. LEIGHTON, P.R.A.

400A THE PYTHON SLAYER .....*Royal Academy*

HAMO THORNYCROFT, A.R.A.

400B TEUCER (bronze).....*Purchased by the President and Council of the Royal Academy, under the terms of the Chantrey Bequest, and lent by them.*

GALLERY No. 5.

W. H. BARTLETT

401 PRACTISING FOR THE SWIMMING MATCH ..... *H. Whitehead, Esq.*

J. W. OAKES, A.R.A.

402 GLEN MUICH, ABERDEENSHIRE ..... *H. H. Goddard, Esq.*

E. BARCLAY

403 THE STEPS AT ANA CAPRI ..... *Lord Brassey*

SIR J. E. MILLAIS, R.A.

404 THE ESCAPE OF A HERETIC, 1559 ..... *W. H. Houldsworth, Esq, M.P.*

"At Valladolid, this Friday before Good Friday, A.D. 1584, before the Liccutiato Cristoval Rodriquez, Commissary of the Holy Inquisition, appears Fray Juan Romero, monk of the Order of Saint Dominic, in the convent of the said Order in the said city, familiar of the said Holy Inquisition, and having sworn to speak the truth, saith, 'That having been assigned, together with Fray Diego Nuño, familiar of the said Holy Inquisition, as confessor to Maria Juana di Acuña y Villajos, late in close prison of the said Holy Inquisition, convict, as an obstinate heretic, and left to be delivered to the secular arm at the Act of Faith appointed to be held in the said city, before His Most Catholic Majesty our Lord the King, this day, he was yesterday at noon in the prison of the said prisoner, together with a person unknown, whom he supposed to be the said Fray Diego, but saw not his face by reason of his wearing his hood drawn forward, when he was of a sudden set upon, gagged and bound, by the said person unknown, and his habit stripped off and put upon the said prisoner, who so passed out of the said prison with the said person unknown, nor hath since been discovered by the deponent or the other familiars of the said Holy Inquisition in the said city.'"—From "Documentos relativos á los procesos por la Inquisicion de Valladolid."

W. H. WEIGALL

405 THE MARQUIS OF SALISBURY, K.G. (Prime Minister)... *Marquis of Exeter*

406 THE EARL OF BEACONSFIELD, K.G. (d. 1881) ..... *Marquis of Exeter*

HANSON WALKER

407 MY LADY OF CASTLEWOOD..... *C. E. Lees, Esq.*

FRANK HOLL, R.A.

408 GENERAL VISCOUNT WOLSELEY, G.C.B., G.C.M.G..... *Viscount Wolseley*

409 JOHN TENNIEL, ESQ..... ..... *William Agnew, Esq.*

410 SIR HENRY C. RAWLINSON, K.C.B., F.R.S..... *Lady Rawlinson*

411 LORD WINMARLEIGH ..... *Committee of the Royal Albert Asylum*

412 H.R.H. THE PRINCE OF WALES ..... *The Master and Benchers of the Middle Temple*

413 SAMUEL COUSINS, ESQ., R.A..... *The Artist*

FRANK HOLL, R.A.—*Continued.*

414 LORD OVERSTONE ..... *Lord Wantage*

415 THE RIGHT HON. J. CHAMBERLAIN, M.P. ... ..*Sir Charles Dilke, Bart.*

416 THE HON. SIR JAMES BACON (Vice-Chancellor) ..... *Sir James Bacon*

G. A. STOREY, A.R.A.

417 LITTLE SWANSDOWN.....*R. M. Knowles, Esq.*

JOHN SCOTT

418 THE APOSTATE.....*Thomas Fairhurst, Esq.*

JAMES T. LINNELL

419 FIRS AND FURZE .....*R. Hobson, Esq.*

F. D. HARDY

420 READING THE WILL..... . .....*George Gurney, Esq.*

E. J. POYNTER, R.A.

421 PROSERPINA..... *W. Brockbank, Esq.*

SIR J. E. MILLAIS, BART, R.A.

422 THE GAMBLER'S WIFE.....*Humphrey Roberts, Esq.*

JAMES T. LINNELL

423 AN AUTUMN EVENING.....*James Jardine, Esq.*

F. R. PICKERSGILL, R.A.

424 CHRISTIANA AND HER COMPANIONS.....*Thomas Barnes, Esq.*

PETER GRAHAM, R.A.

425 OUR NORTHERN WALLS.....*J. Houldsworth, Esq.*

J. E. HODGSON, R.A.

426 THE BARBER'S SHOP, TANGIER .....*James Taylor, Esq.*

SIR JOHN GILBERT, R.A.

427 BRIGANDS DIVIDING BOOTY .... *James Jardine, Esq.*

E. LONG, R.A.

428 EASTER OFFERINGS ..... *Baroness Burdett-Coutts*

VICAT COLE, R.A.

429 LOCH SCAVAIG, ISLE OF SKYE ..... *Col. Hargreaves*

"A while their route they silent made,
As men who stalk for mountain deer,
Till the good Bruce to Ronald said,
'St. Mary! what a scene is here!
I've traversed many a mountain strand,
Abroad, and in my native land,
And it has been my lot to tread
Where safety more than pleasure led;
Thus, many a waste I've wandered o'er,
Clombe many a crag, cross'd many a moor,
But, by my halidome,
A scene so rude, so wild as this,
Yet so sublime in barrenness,
Ne'er did my wandering footsteps press,
Where'er I happ'd to roam.'"

—*Scott's "Lord of the Isles,"* canto iii., stanza xiii.

SIR F. LEIGHTON, BART., P.R.A.

430 GREEK GIRLS BY THE SEA .....*Right Hon. J. Chamberlain, M.P.*

431 ELISHA RAISING THE SON OF THE SHUNAMMITE ...*Mrs. Dyson Perrins*

432 DAY-DREAMS .....*James Mason, Esq.*

DAVID MURRAY, A.R.S.A.

433 'TWIXT CROFT AND CREEL .....*Corporation of Oldham*

FRANK DICKSEE, A.R.A.

434 THE HOUSE BUILDERS. (The Portraits of Sir W. E. Gregory and the Hon. Lady Welby Gregory).....*Sir W. W. Gregory*

PETER GRAHAM, R.A.

435 ROCKS AND AN EMERALD SEA..... ..... *Col. Hargreaves*

SIR F. LEIGHTON, BART., P.R.A.

436 HERCULES WRESTLING WITH DEATH FOR THE BODY OF ALCESTIS ..... *Sir B. Samuelson, Bart, M.P.*

437 AMARILLA .....*Rev. W. T. Houldsworth*

438 SUMMER MOON..... .....*Alfred Morrison, Esq.*

439 PASTORAL .... *Thomas Ashton, Esq.*

440 CLEOBOULOS INSTRUCTING .HIS DAUGHTER CLEOBOULINE *E. N. Buxton, Esq.*

KEELEY HALSWELLE

441 INVERLOCHY CASTLE AND BEN NEVIS ..... *A. C. Armitage, Esq.*

"Something of the old ancestral pride it keeps,
Tho' fallen from its earlier place and circumstance."

F. DICKSEE, A.R.A.

442 ROMEO AND JULIET..... ..... *C. Churchill, Esq.*

Rom. "Farewell, farewell, one kiss, and I'll descend."

P. R. MORRIS, A.R.A.

443 THE WOODLAND POOL..... .....*C. E. Lees, Esq.*

B. W. LEADER, A.R.A.

444 THE END OF THE DAY..... ..... *Col. A. H. Brown, M.P.*

ERSKINE NICOL, A.R.A.

445 HIS LEGAL ADVISER.....*H. Dewhurst, Esq.*

P. MACQUOID

446 "LA BELLE DAME SANS MERCI" ..... *The Artist*

J. W. WATERHOUSE, A.R.A.

447 CONSULTING THE ORACLE .....*Henry Tate, Esq.*

"The Oracle or Teraph was a human head, cured with spices, which was fixed against the wall; and lamps being lit before it and other rites performed, the imagination of diviners was so excited that they supposed that they heard a low voice speaking future events."

J. H. E. PARTINGTON

448 The Ramsey Wreckers ..... *E. Lawrence, Esq.*

ISABEL DACRE

449 Passion Flower ..... *The Artist*

C. J. LEWIS

450 A Mill Race ..... *H. W. Elliott, Esq.*

H. CLARANCE WHAITE

451 The Awakening of Christian ..... *The Artist*

W. H. BARTLETT

452 Return from the Seal Hunt ..... *J. L. Browne, Esq.*

JAMES SANT, R.A.

453 Mrs. Anstruther Thomson ..... *Captain Thomson*

454 Daughters of A. Wilson, Esq. ..... *A. Wilson, Esq.*

455 Her Most Gracious Majesty the Queen, with her Grandchildren, the Princes Albert Victor and George, and Princess Victoria of Wales... *Her Majesty the Queen*

456 The Morning's Post ..... *The Artist*

457 Adversity... ..... *Sir William Eden, Bart.*

WYKE BAYLISS, F.S.A.

458 Interior of Chartres Cathedral ..... *J. Garner Marshall, Esq.*

J. HOUGHTON HAGUE

459 A Lancashire Ornithologist ..... *W. G. Thompson, Esq.*

E. H. FAHEY

460 On the Yare—Evening ..... *C. Coombe, Esq.*

FRANK DICKSEE, A.R.A.

461 The Symbol ..... *Charles Galpin, Esq.*

"Is it nothing to you, all ye that pass by?"

FRANK WALTON

462 "Leaves Have their Time to Fall" ..... *J. C. Bowring, Esq.*

J. B. BURGESS, A.R.A.

463 The Beggar Students of Salamanca ..... *A. Shuttleworth, Esq.*

E. H. FAHEY

464 Filby Broad ..... *Hon. Charles W. Mills*

H. HERKOMER, A.R.A.

465 The Last Muster ..... *W. C. Quilter, Esq., M.P.*

KEELEY HALSWELLE

466 Pangbourne—Early Morning ..... *C. F. Cundy, Esq.*

467 Gathering Clouds, Medmenham ..... *C. F. Cundy, Esq.*

SIR J. E. MILLAIS, BART., R.A.

468 THE FRINGE OF THE MOOR ..... *T. H. Ismay, Esq.*
469 ASLEEP ..... *J. C. Harter, Esq.*
470 THE SONAMBULIST ..... *Mrs. Richard Johnson*
471 AWAKE ..... *Holbrook Gaskell, Esq.*
472 BRIDE OF LAMMERMOOR ..... *Angus Holden Esq.*
473 DR. FRASER (Late Bishop of Manchester) ..... *Mrs. Fraser*
474 BOYHOOD OF RALEIGH ..... *James Reiss, Esq.*
475 SIR JAMES PAGET, BART., F.R.S. ..... *The Almoners of St. Bartholomew's*
476 THE NORTH-WEST PASSAGE ..... *C. F. H. Bolckow, Esq.*
"It might be done, and England should do it."
477 SIR HENRY THOMPSON ..... *Sir Henry Thompson*
478 THE VALE OF REST ..... *Henry Tate, Esq.*
"Where the wicked cease from troubling, and the weary are at rest."
479 HIS EMINENCE CARDINAL NEWMAN ..... *Duke of Norfolk*
480 GREENWICH PENSIONERS, AT NELSON'S TOMB, IN THE CRYPT OF ST. PAUL'S ..... *Humphrey Roberts, Esq.*

C. NAPIER HEMY

481 OLD PUTNEY BRIDGE ..... *City of Manchester*

WILLIAM MEREDITH

482 HERRING BOATS UNLOADING ..... *The Artist*

JAMES SMART, R.S.A.

483 THE PASS OF LENNY, PERTSHIRE ..... *Albert Institute, Dundee*

B. W. LEADER, A.R.A.

484 WILD WALES ..... *Benjamin Armitage, Esq.*

R. GAY SOMERSET

485 LANDSCAPE ..... *J. Eaton, Esq.*

WYKE BAYLISS, F.S.A.

486 INTERIOR OF ST. MARK'S, VENICE ..... *Corporation of Nottingham*

J. W. NORTH

487 * * * * ..... *J. H. Adamson, Esq.*
"See'st how my flowers be spread,
Dy'd in lily white, and crimson red."

GALLERY No. 6.—THE CENTRAL HALL.

JOHN COLLIER

488 Dr. W. B. Carpenter (Registrar 1856-79).
Senate of the University of London

H. W. PICKERSGILL, R.A.,
(d. 1875.)

489 Professor Owen ..... *Mrs. Owen*

E. J. POYNTER, R.A.

490 A Visit to Æsculapius...*Purchased by the President and Council of the Royal Academy, under the terms of the Chantrey Bequest, and lent by them.*

"In time long past, when in Dianae's chase,
A bramble bush prickt Venus in the foot,
Olde Æsculapius healpt her heavie case,
Before the hurt had taken anye roote."—
Thos. Watson ("Arber's Reprint.")

491 The Dragon of Wantley..... *Earl of Wharncliffe*

"The fight between More, of More Hall, and the Dragon of Wantley."

492 Atalanta's Race ..... *Earl of Wharncliffe*

"Atalanta, not willing to lose her virgin's estate, made it a law to all suitors that they should run a race with her in a public place, and if they failed to overcome her should die unrevenged; and thus many brave men perished. At last came Milanion, who, outrunning her with the help of three golden apples given him by Venus, gained the virgin and wedded her."—*Morris's "Earthly Paradise."*

SIR F. GRANT, P.R.A.

493 Edward Geoffrey, K.G., 14th Earl of Derby (born 1799; died 1869. Prime Minister)..... *Earl of Derby*

SIR THOMAS LAWRENCE, P.R.A.
(d. 1830.)

494 The Earl of Aberdeen (Prime Minister) ..... *Earl of Aberdeen*

SIR F. GRANT, P.R.A.

495 Earl Russell (Prime Minister)..... *Countess Russell*

SIR THOMAS LAWRENCE, P.R.A., d. 1830.

496 Field-Marshal the Duke of Wellington ..... *Duke of Wellington*

E. J. POYNTER, R.A.

497 Perseus and Andromeda..... *Earl of Wharncliffe*

498 Nausicaa and her Companions Playing at Ball... *Earl of Wharncliffe*

"The Queen now, for the upstroke, struck the ball
Quite wide off the other maids, and made it fall
Amidst the whirlpools."—*Chapman's "Homer's Odyssey."*

D. LAUGEE

499 SIR JOHN G. SHAW-LEFEVRE (Vice-Chancellor 1842-62). *Senate of the University of London*

R. LEHMANN

500 SIR HENRY BESSEMER ..... *Sir H. Bessemer*

E. ARMITAGE, R.A.

501 JULIAN THE APOSTATE PRESIDING AT A CONFERENCE OF SECTARIANS ..... *Corporation of Liverpool*

"Julian, who understood and derided their theological disputes, invited to the palace the leaders of the hostile sects, that he might enjoy the agreeable spectacle of their furious encounters. The clamour of controversy sometimes provoked the Emperor to exclaim, 'Hear me: the Franks have heard me and the Alemanni.' But he soon discovered that he was now engaged with more obstinate and implacable enemies; and though he exerted the powers of oratory to persuade them to live in concord, or at least in peace, he was perfectly satisfied before he dismissed them from his presence that he had nothing to fear from the union of the Christians."—*Gibbon's "Decline and Fall of the Roman Empire,"* chap. xxiii.

G. F. WATTS, R.A.

502 THE EARL OF SHAFTESBURY, K.G. (died 1885)... ..... *The Artist*

503 THE REV. DR. JAMES MARTINEAU..... *Manchester New College, London*

504 ROBERT BROWNING, D.C.L. (Poet and Dramatist; born 1812) *The Artist*

RUDOLPH LEHMANN

505 SIR THOMAS SPENCER WELLS, BART..... *Sir T. Spencer Wells, Bart.*

SIR J. E. MILLAIS, BART., R.A.

506 WINTER FUEL ..... *G. B. Worthington, Esq.*

"Bare ruined choirs, where once the sweet birds sang."—*Shakspere.*

RUDOLPH LEHMANN

507 SIR CHARLES WILLIAM SIEMENS (died 1883) ..... *Lady Siemens*

JOHN LUCAS

508 SIR WILLIAM PEEL (killed at Lucknow. Sir W. Peel, as Lieutenant, commanded the Naval Brigade during the Indian Mutiny) ..... *H. Graves, Esq.*

JOHN COLLIER

509 THE RIGHT HON. SIR GEORGE JESSEL (died 1883. Master of the Rolls)..... *The Senate of the London University*

PHILIP WESTCOTT

510 SIR ROBERT RAWLINSON C.B. (Sanitary Commissioner to the British Army at the Siege of Sebastopol).....*Sir R. Rawlinson*

C. E. HALLE

511 Mr. Charles Hallé, LL.D. ..... *Charles Hallé, Esq.*

SIR FREDERIC LEIGHTON, BART., P.R.A.

512 Daphnephoria..... *Stuart Hodgson, Esq.*

"A triumphal procession held every ninth year at Thebes in honour of Apollo, and to commemorate a victory of the Thebans over the Æolians of Arne. The name was derived from the laurel branches carried by those who took part in the festival, the laurel, or more properly the bay, being sacred to Apollo. The procession is led by a youthful priest, called the Daphnephoros (the laurel bearer); before him a boy, his kinsman, bears a symbolic standard called the 'Kopo,' and indicating the sun, moon, and stars. Behind the Daphnephoros three lads carry a trophy of golden armour; they are followed by a choir of Theban maidens, who, crowned with laurel, and each bearing an olive branch, sing the hymn to Apollo, under the direction of the chorus leader. The procession is closed by boys, carrying votive tripods. In the valley below is seen the town of Thebes."—*Proclus, "Chrestomath,"* p. ii.

H. HERKOMER, A.R.A.

513 The Right Hon. Viscount Cross, G.C.B. *Rt. Hon. W. H. Smith, M.P.*

SIR J. E. MILLAIS, BART., R.A.

514 Victory, oh, Lord! (Aaron and Hur holding up the hands of Moses) ..... *Mrs. Reiss*

"So Joshua did as Moses had said to him, and fought with Amalek: and Moses, Aaron, and Hur went up to the top of the hill. And it came to pass, when Moses held up his hand, that Israel prevailed: and when he let down his hand, Amalek prevailed. But Moses's hands were heavy; and they took a stone, and put it under him, and he sat thereon; and Aaron and Hur stayed up his hands, the one on the one side, and the other on the other side; and his hands were steady until the going down of the sun."– Exodus, xvii., 10-12.

PROFESSOR A. LE GROS

515 The Right Hon. Sir G. Grey, Bart., K.C.B. ..... *Earl of Northbrook*

J. CALLCOTT HORSLEY, R.A.

516 Isambard Kingdom Brunel (the Engineer of the Great Western Railway, &c.)..... ... *H. M. Brunel, Esq.*

G. F. WATTS, R.A.

517 Thomas Carlyle (Essayist and historian; d. 1881).....*The Artis*

JOHN LUCAS.

518 George Stephenson (the Inventor of the Locomotive Steam Engine, represented as standing on Chat Moss. Born 1781; died 1848) ..... *G. R. Stephenson, Esq.*

SIR J. D. LINTON, P.R.I.

519 VICTORIOUS! ..... *Charles J. Jacoby, Esq.*

H. W. PICKERSGILL, R.A.
(d. 1875.)

520 SIR ROBERT PEEL, BART. (Prime Minister) ..... *H. Graves, Esq.*

SIR J. D. LINTON, P.R.I.

521 THE BANQUET..... *Charles J. Jacoby, Esq.*

E. LONG, R.A.

522 THE EARL OF IDDESLEIGH (Sir Stafford Northcote) *Countess of Iddesleigh*

SIR J. E. MILLAIS, BART., R.A.

523 THE EARL OF BEACONSFIELD (Prime Minister. Died 1881).
Rt. Hon. W. H. Smith, M.P

G. RICHMOND, R.A.

524 RIGHT HON. W. H. SMITH, M.P. .....*Right Hon. W. H. Smith, M.P.*

SIR J. E. MILLAIS, BART., R.A.

525 MARQUIS OF SALISBURY, K.G. (Prime Minister)
Right Hon. W. H. Smith, M.P.

F. WINTERHALTER

526 HER MAJESTY THE QUEEN ..... *Her Majesty*

527 H.R.H. THE PRINCE CONSORT ..... *Her Majesty*

H. T. WELLS, R.A.

528 EARL SPENCER, K.G..... *Earl Spencer, K.G.*

SIR J. E. MILLAIS, BART., R.A.

529 RIGHT HON. W. E. GLADSTONE, M.P. (Prime Minister)
Sir Charles Tennant, Bart.

530 RIGHT HON. JOHN BRIGHT, M.P. ..... *William Agnew, Esq.*

T. H. MUNNS, 1883.

531 THE MARQUIS OF HARTINGTON, M.P..... *Manchester Reform Club*

SIR J. D. LINTON. P.R.I.

532 THE BENEDICTION..... *Charles J. Jacoby, Esq.*

W. M. TWEEDIE (d. 1878.)

533 WILLIAM CAVENDISH, DUKE OF DEVONSHIRE, K.G. (Chancellor 1836-56)..... *The Senate of the University of London.*

JOHN LUCAS

534 ROBERT STEPHENSON (the eminent Engineer of the Britannia Tubular Bridge over the Menai Straits. Born 1803; died 1859) .....*G. R. Stephenson, Esq.*

E. LONG, R.A.

535 GODS AND THEIR MAKERS ..... *Jesse Haworth, Esq.*

"All know what monsters Egypt venerates.
It worships crocodiles, or it adores
The snake-gorged ibis; and the sacred ape
Graven in gold is seen. . . . Whole cities pray
To cats and fishes, or the dog invoke."
—*Juvenal* (Satire XV. 1. Translated by Sir Frederick Pollock, Bart.)

G. F. WATTS, R.A.

536 VISCOUNT SHERBROOKE (Robert Lowe) ..... *The Artist*

537 LORD LYNDHURST (d. 1863) ..... *Executors late C. H. Rickards, Esq.*

538 THE DUKE OF ARGYLL, K.G. ..... *The Artist*

SIR J. E. MILLAIS, BART., R.A.

539 GEORGE GROTE, D.C.L., F.R.S. (Vice Chancellor, 1862-71; d. 1871) ..... *Senate of the University of London*

E. LONG, R.A.

540 THE BABYLONIAN MARRIAGE MARKET

Trustees of the Royal Holloway College

"Herodotus records one of their customs, which, whether in jest or earnest, he declares to be the wisest he ever heard of. This was their wife-auction, by which they managed to find husbands for all their young women. The greatest beauty was put up first, and then knocked down to the highest bidder; then the next in the order of comeliness, and so on to the damsel who was equidistant between beauty and plainness, who was given away gratis. Then the least plain was put up, and knocked down to the gallant who would marry her for the smallest consideration, and so on till even the plainest was got rid of to some cyrical worthy, who decidedly preferred lucre to looks. By transferring to the scale of the ill-favoured the prices paid for the fair beauty was made to endow ugliness, and the rich man's taste was the poor man's gain."—"*Herodotus*" (*by George C. Swayne, M.A.*)

G. RICHMOND, R.A.

541 EARL GRANVILLE, K.G. (Chancellor of the University of London, 1887) ..... *Senate of the University of London*

SIR E. LANDSEER, R.A. (d. 1873.)

542 SCENE IN BRAEMAR, HIGHLAND DEER, &c. .....*C. F. H. Bolckow, Esq.*

JOHN COLLIER

543 CHARLES ROBERT DARWIN, F.R.S., LL.D., d. 1882 (Author of "The Origin of Species," &c.).....*W. E. Darwin, Esq.*

544 THOMAS HENRY HUXLEY, LL.D., D.C.L., F.R.S. ..... *The Artist*

E. LONG, R.A.

545 DIANA OR CHRIST? ..... *D. Thwaites, Esq.*

"Let her cast the incense, but one grain, and she is free." The scene is laid in Ephesus, at the end of the stadium, which might have been used as an amphitheatre.

G. F. WATTS, R.A.

546 LORD LAWRENCE (born 1811; Commissioner of the Sutlej, 1846; of the Punjaub, 1849; checked the Mutiny at Lahore, July, 1857; Viceroy of India, December, 1863; resigned September, 1868; made Baron, 27th of March, 1869; first Chairman of the London School Board, November, 1870-73; died 1879) ..... *The Artist*

547 THE VERY REV. HENRY MILMAN (Dean of St. Paul's, d. 1868) *Rev. W. H. Milman*

548 JOHN STUART MILL (d. 1873) ..... *Sir Charles Dilke, Bart.*

SCULPTURE.

T. WOOLNER, R.A.

549 LORD TENNYSON (bust, marble) ..... *The Artist*

SIMONDS

550 HER MAJESTY THE QUEEN—(statuette) ..... *The Artist*

SIR F. LEIGHTON, P.R.A.

551 NEEDLESS ALARMS (bronze) ..... *The Artist*

A. GILBERT, A.R.A.

552 MERCURY (bronze) ..... *J. P. Heseltine, Esq.*

553 HEAD OF A FISHERMAN ..... *J. P. Heseltine, Esq.*

HARRY BATES

554 FIGURE OF A LITTLE GIRL ..... *The Artist*

A. GILBERT, A.R.A.

555 ICARUS ..... *Sir F. Leighton, Bart.*

HAMO THORNYCROFT, A.R.A.

556 STUDY OF A HEAD ..... *The Artist*

HARRY BATES

557 HOMER (in high relief) ..... *The Artist*

558 DIDO AND ÆNEAS ..... *The Artist*

GALLERY No. 7.

HENRY DAWSON

559 The Wooden Walls of Old England ..... *James Orrock, Esq.*

E. M. WARD, R.A.

560 Fouquier Tinville Reading the Act of Accusation to Marie Antoinette in the Prison of the Temple ... *E. Lawson, Esq.*

W. ETTY, R.A.

561 The Bivouac of Cupids..... *David Price, Esq.*

E. M. WARD, R.A.

562 Charlotte Corday Sitting for her Portrait..... *E. Lawson, Esq.*

JAMES HOLLAND

563 The Thames at Greenwich ..... *S. G. Holland, Esq.*

564 Venice, Sunrise ..... *S. G. Holland, Esq.*

JOHN PHILLIP, R.A.

565 Marriage of the Princess Royal of England..... *T. Barnes, Esq.*

(*For Key to this Picture, see page 298.*)

S. W. COOKE, R.A.

567 A Crab and Lobster Shore ..... *G. C. Dewhurst, Esq.*

GEORGE CHAMBERS

568 Off Dover..... ..... *H. G. Crews, Esq.*

D. ROBERTS, R.A.

569 The River Tiber, Rome ..... *Exors. of Henry Wilson Esq.*

CLARKSON STANFIELD, R.A.

570 The Morning after Trafalgar ..... *James Price, Esq.*

571 On the River Texel..... *James Houldsworth, Esq.*

572 Shore of the Zuyder Zee..... *James Taylor, Esq.*

573 Coast of Normandy .... *David Jardine, Esq.*

574 Port na Spania, near the Giant's Causeway, Antrim, Coast of Ireland ..... *Daniel Thwaites, Esq.*

"It is related that one or more of the ships belonging to the Spanish Armada were driven on to the coast by stress of weather, and in the mist took the isolated rocks called the Chimney-tops for the veritable chimneys of Dunluce Castle, and wasted their gunpowder in firing at them. The gale increasing, they were totally wrecked in the bay, thence called Port na Spania."

575 The Wooden Walls of Old England (Hulks on the Medway) *Angus Holden, Esq.*

The Marriage of H.R.H. the Princess Royal,

PAINTED BY JOHN PHILLIP, ESQ., R.A.

566 KEY TO THE PICTURE

1 The Queen.
2 The Prince Consort.
3 The Princess Royal.
4 Prince Frederick William.
5 The Prince of Wales.
6 Prince Alfred Ernest Albert.
7 Prince Arthur Patrick Albert.
8 Prince Leopold Duncan Albert.
9 Princess Alice Maud Mary.
10 Princess Helena Augusta Victoria.
11 Princess Louisa Caroline Alberta.
12 The King of Prussia, } the parents of Prince
13 The Queen of Prussia, } Fred. William.
14 The Duke of Saxe-Coburg (brother of Prince Consort).
15 Gentleman of the Suite.
16 Do. do. do.
17 Do. do. do.
18 Do. do. do.
19 The Archbishop of Canterbury.
20 Countess Hoenthall.
21 Countess Perponcher.
22 Earl of St. Germans.
23 Marquis of Breadalbane.
24 Earl of Clarendon.

Bridesmaids.

25 Lady Cecilia Gordon-Lennox.
26 Lady Constance Villiers.
27 Lady Emma Stanley.
28 Lady Susan Murray.
29 Lady Victoria Noel.
30 Lady Susan Pelham Clinton.

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31 Countess of Fife.
32 General Williams of Kars.
33 Lord John Russell.
34 Duke of Argyll.
35 Marquis of Lansdowne.
36 Leopold, King of the Belgians.
37 Garter King-at-Arms.
38 Duke of Newcastle.
39 Lord Palmerston.
40 Duchess of Kent.
41 Lord Panmure.
42 Duchess of Sutherland.
43 Duchess of Cambridge.
44 Duke of Cambridge.
45 Duchess of Argyll.
46 Duchess of Wellington.
47 Princess Mary of Cambridge.

The Roya Marriage was solemnised at the Chapel Royal, St. James's, January 25th, 1858.

CLARKSON STANFIELD, R.A.—*continued.*

576 THE ABANDONED ..... *Earl of Northbrook*

"There was no trace by which the name of the ship could be ascertained. The wreck had evidently drifted about for many months: clusters of shellfish had fastened about it, and long seaweeds flaunted at its sides. But where, thought I, is the crew? Their struggle has long been over—they have gone down amidst the roar of the tempest—their bones lie whitening among the caverns of the deep. Silence, oblivion, like the waves, have closed over them, and no one can tell the story of their end. What sighs have been wafted after that ship! What prayers offered up at the deserted fireside of home! How often has the mistress, the wife, the mother, peered over the daily news to catch some casual intelligence of this rover of the deep! How has expectation darkened into anxiety—anxiety into dread—and dread into despair. Alas! not one memento shall ever return for love to cherish. All that shall ever be known is, that she sailed from her port, and was never heard of more!"

—*Vide "The Voyage," Washington Irving's Sketch Book.*

577 LA CHASSE MARÉE ..... *C. F. H. Bolckow, Esq.*

578 ENTRANCE TO THE ZUYDER ZEE ..... *F. W. Grafton, Esq.*

579 DORDRECHT ON THE MAES ..... *F. W. Grafton, Esq.*

SAM BOUGH, R.S.A.

580 WEMYSS BAY ..... *Joseph Broome, Esq.*

T. DANBY

581 SUNSET ..... *Mrs. A. A. Dewhurst*

T. CRESWICK, R.A.

582 THE WINDMILL ..... *Richard Hurst, Esq.*

W. MÜLLER

583 DREDGING ON THE MEDWAY ..... *Col. Hargreaves*

W. ETTY, R.A.

584 ANDROMEDA ..... *Daniel Thwaites, Esq.*

585 LA FLEUR DE LIS ..... *J. S. Morgan, Esq.*

E. W. COOKE, R.A.

586 THE PIAZZETTA, VENICE ..... *C. F. H. Bolckow, Esq.*

587 THE PIAZZETTA, VENICE, with the Lion Column and the Campanile ..... *C. F. H. Bolckow, Esq.*

T. CRESWICK, R.A.

588 A GLADE IN WINDSOR FOREST (the Animals painted by T. S. Cooper, R.A.) ..... *Charles Chapman, Esq.*

JOHN PHILLIP, R.A.

589 AL ALCAZAR ..... *C. F. H. Bolckow, Esq.*

590 IL CIGARILLO ..... *Holbrook Gaskell, Esq.*

591 **JOHN PHILLIP, R.A.**—*continued.*

THE HOUSE OF COMMONS IN 1860 (Mr. Speaker Denison in the Chair, and Lord Palmerston Addressing the House.)

Viscountess Ossington

1. Right Hon. Edward Ellis, M.P.
2. Right Hon. Sir Francis T. Baring, M.P.
3. Lord H. G. Vane, M.P.
4. Richard Cobden, Esq., M.P.
5. John Bright, Esq., M.P.
6. Lord Elcho, M.P.
7. Right Hon. Edward Cardwell, M.P., Chancellor of the Duchy of Lancaster.
8. Sir Roundell Palmer, M.P.
9. Right Hon. Milner Gibson, M.P., President of the Board of Trade.
10. Right Hon. Charles Pelham Villiers, M.P., President of the Poor Law Board.
11. W. Massey, Esq., M.P.
12. Viscount Palmerston, First Lord of the Treasury.
13. Sir Denis Le Marchant, Bt.
14. Right Hon. The Speaker.
15. Thos. Erskine May, Esq., C.B.
16. Lord Charles Russell.
17. Mr. Lee.
18. Right Hon. Sir John Pakington, M.P.
19. Sir Hugh McCalmont Cairns, M.P.
20. Col. John Wilson Patten, M.P.
21. Right Hon. Sotheron Estcourt, M.P.
22. Lord John Manners, M.P.
23. Sir Edward Lytton Bulwer Lytton, Bt., M.P.
24. Right Hon. Major-General J. Peel, M.P.
25. Lord Stanley, M.P.
26. Right Hon. B. Disraeli, M.P.
27. Right Hon. Spencer H. Walpole, M.P.
28. Right Hon. J. W. Henley, M.P.
29. Lord John Russell, M.P.
30. Right Hon. W. E. Gladstone, M.P., Chancellor of the Exchequer.
31. Right Hon. Sir George Grey, M.P., Secretary of State.
32. Right Hon. Sir Charles Wood, Bt., M.P., Secretary of State for India.
33. Right Hon. Sir George Cornwall Lewis, Bt. M.P., Secretary of State for War.

JOHN PHILLIP, R.A.—*continued.*

592 AQUA FRESCA ..... *W. D. Holt, Esq.*

593 ASKING A BLESSING..... *William Tattersall, Esq.*

594 LA BOMBA, OR THE WINE DRINKERS..... *R. Brocklebank, Esq.*

595 THE EARLY CAREER OF MURILLO.....*J. M. Keiller, Esq.*

"He was reduced to earn his weekly bread by painting coarse and hasty pictures for the Feria (weekly fair), held in a broad street branching from the northern end of the Old Alameda, and in front of the old church of All Saints', remarkable for its picturesque semi-Moorish belfry. This venerable market presents every Thursday an aspect which has changed but little since the days of Murillo. Fruit, vegetables, and coarse pottery, old clothes, old iron, still cover the ground or load the stalls as they did two centuries ago, when the unknown youth stood among gipsies, muleteers, and mendicant friars, selling for a few reals those productions of his early pencil for which royal collectors are now ready to contend."—*Vide Stirling's "Annals of Spanish Painters."*

596 GATHERING THE OFFERINGS..... *Colonel Hargreaves*

597 THE WATER DRINKERS..... *Walter Dunlop, Esq.*

598 LA GLORIA: A SPANISH WAKE..... *John Pender, Esq.*

599 O, NANNIE! WILT THOU GANG WI' ME? *B. Armitage, Esq. (Sorrel Bank)*

600 GRACE IN THE HIGHLANDS.....*G. C. Dewhurst, Esq.*

T. BARKER (Bath)

601 GIPSY ENCAMPMENT ..... *J. Ryecroft, Esq.*

RICHARD DADD

602 THE WATER CARRIERS .....*George W. Agnew, Esq.*

HENRY BRIGHT

603 GLYNN CEIRIOG, WALES—SUNSET ..... *Edward Schunck, Esq., F.R.S.*

E. W. COOKE, R.A.

604 WRECK ON THE GOODWIN SANDS.....*H. Dewhurst, Esq.*

SAM BOUGH, R.S.A.

605 MOORLAND, NEAR CARLISLE .....*Joseph Broome, Esq.*

JOHN PHILLIP, R.A.

606 A SCOTCH CHRISTENING..... *John Pender, Esq.*

E. M. WARD, R.A.

607 GRINLING GIBBONS'S FIRST INTRODUCTION TO COURT...*John Pender, Esq.*

"1st March.—I caused Mr Gibbons to bring to Whitehall his excellent piece of carving, where, being come, I advertised his Majesty. . . . No sooner was he entered, and cast his eye on the work, but he was astonished at the curiosity of it. . . . He commanded it should be immediately carried to the queen's side to show her. It was carried up into her bed-chamber, where she was, and the king being called away, left us with the queen, believing she would have bought it, it being a crucifix; but his Majesty was gone, a French peddling woman, one Madame de Boord, who used to bring petticoats, fans, and baubles out of France to the ladies, began to find fault with several things in the work, which she understood no more than an ass or a monkey, so as in a kind of indignation, I caused the person who brought it to carry it back to the chamber, finding the queen so much governed by an ignorant French woman, and this incomparable artist had his labour only for his pains." *Evelyn's Diary.*

J. F. HERRING

608 MARES AND FOALS ..... *E. J. Longton, Esq.*

J. M. W. TURNER, R.A.

609 PROSERPINE, THE PLAINS OF ENNA..... *Edward Chapman, Esq.*

610 THE SHORE AT MARGATE (Sun rising through vapour) *George Chapman, Esq.*

611 A DREAM OF ITALY..... ..... *James Price, Esq.*

612 RAIN, STEAM, AND SPEED..... *The National Gallery*

613 THE APPROACH TO VENICE ..... *Mrs. Moir*

614 RETURNING FROM THE BALL, VENICE ..... *James Price, Esq.*

H. W. PICKERSGILL, R.A.

615 GEORGE PEABODY, ESQ. (The eminent American philanthropist) *H. Graves, Esq.*

SIR MARTIN ARCHER SHEE, P.R.A.

616 HER MAJESTY THE QUEEN..... *Royal Academy*

P. WESTCOTT

617 SIR ELKANAH ARMITAGE (Mayor of Manchester 1846-7, and 1847-8; High Sheriff of Lancashire 1866) ..... *E. Armitage, Esq.*

C. BURTON BARBER

618 A MUTE APPEAL ..... *Sir Richard Freake*

J. M. W. TURNER, R.A.

619 THE SOL DI VENEZA (going to Sea) ..... *National Gallery*

620 GOING TO THE BALL, VENICE ..... *James Price, Esq.*

621 SNOWSTORM (Steamboat off a Harbour Mouth making Signals) *National Gallery*

622 WRECKERS, COAST OF NORTHUMBERLAND (Steamboat assisting Ship off Shore)..... *John Pender, Esq.*

623 THE BURIAL OF WILKIE..... *National Gallery*

"The midnight torch gleamed o'er the steamer's side,
And Merit's corse was yielded to the tide."

624 ROSENAU ..... *George Holt, Esq.*

DAVID ROBERTS, R.A.

625 A CHAPEL IN THE CATHEDRAL OF DIXMUDE, WEST FLANDERS *John Pender, Esq.*

C. R. LESLIE, R.A.

626 SCENE FROM RODERICK RANDOM ..... *William Agnew, Esq.*

"At length the important hour arrived, and the will was produced in the midst of the expectants, who formed a group whose looks and gestures would have been very entertaining to an unconcerned spectator. But the reader can scarce conceive the astonishment that appeared when an attorney pronounced aloud the young squire sole heir of all his grandfather's estate, personal and real. My uncle, who had listened with great attention, sucking the head of his cudgel all the while, accompanied these words of the attorney with a stare and a 'Whew' that alarmed the whole assembly. The eldest and pertest of my female competitors, who had always been very officious about my grandfather's person, inquired with a faltering accent, and visage as yellow as an orange, 'If there were no legacies,' and was answered, 'None at all!' upon which she fainted away. The rest, whose expectations (perhaps) were not so sanguine, supported their disappointment with more resolution, though not without giving evident marks of indignation and grief, at least as genuine as that which appeared in them at the old gentleman's death. My conductor, after having kicked with his heel for some time against the wainscot, began—'So there is no legacy, friend. Ha! Here's an old succubus. But somebody's soul howls for it, d——n me.'"—Chap. iv.

SIR EDWIN LANDSEER, R.A.

627 ODIN (a celebrated blood-hound) ..... *Daniel Thwaites, Esq.*

628 LADY GODIVA'S PRAYER..... *H. W. Eaton, Esq., M.P.*

"Leofric, Earl of Murcia, had imposed such heavy taxes on the citizens of Coventry, that his lady, Godiva, moved by their entreaties, so much importuned her lord to remit them, that he consented on condition she would ride naked through the city at mid-day. This condition 'humanity' induced her to accept."

629 THE SICK MONKEY..... *Earl of Northbrook*

630 OLD PENSIONERS..... ..... *Colonel Hargreaves*

631 ON TRUST (Portrait of H.R.H. Princess Mary of Cambridge, at the age of six).....*H. W. Eaton, Esq.*

632 SPEARING THE OTTER..... *Angus Holden, Esq.*

633 AN EVENT IN THE FOREST..... *John Pender, Esq.*

634 LADY EMILY PEEL AND HER FAVOURITE DOGS.....*H. Graves, Esq.*

635 SCENE FROM MIDSUMMER NIGHT'S DREAM (Titania and Bottom; Fairies attending, Peablossom, Cobweb, Mustardseed, Moth, &c.)..... *W. C. Quilter, Esq., M.P.*

"If we shadows have offended,
Think but this (and all is mended)
That you have but slumbered here,
While these visions did appear;
And this weak and idle theme
No more yielding, but a dream,
Gentles, do not reprehend;
If you pardon we will mend.
And, as I am an honest Puck,
If we have unearned luck
Now to scape the serpent's tongue,
We will make amends ere long,
Else the Puck a liar call.
So good night unto you all,
Give me your hand if we be friends,
And Robin shall restore amends."—*Epilogue.*

SIR EDWIN LANDSEER, R.A.—*continued.*

636 CHILDREN OF THE MIST ..... *Jesse Haworth, Esq.*

637 AN INCIDENT IN DEER-STALKING ..... *George Holt, Esq.*

638 THE LOST SHEEP..... ..... *John Pender, Esq.*

639 PORTRAIT OF MR. VAN AMBURGH (as he appeared with his animals at the London Theatres). Painted for Field Marshal the Duke of Wellington..... *Duke of Wellington*

640 WELL-BRED SITTERS, WHO NEVER SAY THEY'RE BORED *Daniel Thwaites, Esq.*

641 UNCLE TOM AND HIS WIFE FOR SALE..... *J. C. Harter, Esq.*

WILLIAM BRADLEY

642 CHARLES SWAIN (Author and Poet)..... *R. Leake, Esq., M.P.*

C. A. DUVAL

643 JOHN KENNEDY, ESQ., OF ARDWICK HALL... ..... *J. L. Kennedy, Esq.*

JOHN LINNELL

644 RT. HON. FRANCIS J. BARING, M.P. (First Lord Northbrook; Born 1793; Died 1866)..... ..... *Earl of Northbrook*

CHARLES LANDSEER, R.A.

645 THE MERRY MONKS OF MELROSE..... *G. R. Clayton, Esq.*

SIR FRANCIS GRANT, P.R.A.

646 PORTRAIT OF HIMSELF ..... *Col. Grant*

GALLERY No. 8.

G. P. CHALMERS, R.S.A.

647 The End of the Harvest.....*J. Forbes White, Esq., LL.D.*

SIR A. W. CALLCOTT, R.A.

648 The Tomb of Cicero, Mola di Gaeta .....*Mrs. Dyson Perrins*
649 Amalfi, South Italy .....*David Ainsworth, Esq.*
650 An English Landscape (Cattle by Landseer) .....*David Jardine, Esq.*

HENRY DAWSON

651 The Vale of the Lune.....*Daniel Thwaites, Esq.*

E. W. COOKE, R.A.

652 The Church at Venice (called Santa Maria della Salute) *C. F. H. Bolckow, Esq.*

F. LEE-BRIDELL

653 Lake Como ....*S. R. Platt, Esq.*

W. COLLINS, R.A.

654 Mendicants at the Gate of a Franciscan Monastery...*George Holt, Esq.*

RICHARD DADD

655 Midsummer Night's Dream..... *Thomas Ashton, Esq.*

GEORGE MASON, A.R.A.

656 A Pastoral Symphony..... *Lord Wantage*
657 Unwilling Playmates..... *Godfrey Wedgwood, Esq.*
658 The Gander .....*William Coltart, Esq.*
659 The Harvest Moon..... *A. Henderson, Esq.*
660 Evening.....*Humphrey Roberts, Esq.*
661 Near Matlock: Eventime..... *Duke of Westminster*
662 Young Anglers..... *William Agnew, Esq.*
663 Wind on the Wold..... *Sir F. Leighton, Bart.*

JOHN LINNELL

664 A Coming Storm..... *Humphrey Roberts, Esq.*

R. ANSDELL, R.A.

665 Lytham Sandhills ..... *Mrs. Thomas Agnew*

H. O'NEIL, A.R.A.

666 Lady Jane..... *Julius Reiss, Esq.*

JAMES HOLLAND

667 Venice ..... *Mrs. Dyson Perrins*

T. WEBSTER, R.A.

668 SUMMER ..... *John Knowles, Esq.*
669 SPRING ..... *F. W. Grafton, Esq.*
670 THE DAME'S SCHOOL ..... *Earl of Northbrook*

"In every village marked with little spire,
Embowered with trees, and hardly known to fame,
There dwells in lowly shed and mean attire,
A matron old, whom we schoolmistress name."—*Shenstone.*

P. F. POOLE, R.A.

671 THE ESCAPE OF GLAUCUS AND IONE, WITH THE BLIND GIRL NYDIA, FROM POMPEII ..... *William Waring, Esq.*

WILLIAM ETTY, R.A.

672 PORTRAIT OF HIMSELF ..... *City of Manchester*

JOHN LINNELL

673 LANDSCAPE ..... *W. H. Crabtree, Esq*

W. PARTRIDGE, A.R.A.

674 VISCOUNT MELBOURNE (Prime Minister) ..... *Lord Mount Temple*

D. MACLISE, R.A.

675 EDWARD LYTTON BULWER (First Earl of Lytton) ..... *Earl of Lytton*

E. W. COOKE, R.A.

676 DANISH CRAFT ON THE ELBE ..... *Mrs. Thomas Agnew*

CECIL LAWSON

677 STRAYED ..... *Cyril Flower, Esq., M.P.*

HENRY DAWSON

678 THE POOL BELOW LONDON BRIDGE ..... *James Orrock, Esq.*
679 VIEW ON THE THAMES, LOOKING TOWARDS ST. PAUL'S *A. T. Hollingsworth, Esq.*
680 DOVER ..... *James Orrock, Esq.*

FREDERICK WALKER, A.R.A.

681 THE WAYFARERS ..... *William Agnew, Esq.*
682 THE PLOUGH ..... *The Count de Bayona*
683 THE HARBOUR OF REFUGE ..... *William Agnew, Esq.*
684 THE OLD GATE ..... *A. E. Street, Esq.*
685 THE PEACEFUL THAMES ..... *Sir Charles Tennant, Bart.*
686 THE LOST PATH ..... *H. F. Makins, Esq.*

E. W. COOKE, R.A.

687 DUTCH BOATS, STORM COMING ON ..... *N. Eckersley, Esq.*
688 VENICE ..... *G. C. Dewhurst, Esq.*

ROBERT TONGE

689 THE SHORE AT HOYLAKE ..... *W. Coltart, Esq.*

F. LEE-BRIDELL

690 RETURNING FROM THE WEDDING, UPPER AUSTRIA ..... *E. Naylor, Esq.*

W. ETTY, R.A.

691 THE DANCE ..... *Sir Charles Tennant, Bart.*

"A figured dance succeeds : a comely band
Of youths and maidens bounding hand-in-hand.
The maids in soft simars of linen drest,
The youths all graceful in the glossy vest :
Of these the locks with flow'ry wreaths unrolled ;
Of those the side adorn'd with swords of gold ;
* * *
That glittering gay from silver belts depend.
The gazing multitudes admire around
Two active tumblers in the centre bound ;
Now high, now low, their pliant limbs they bend,
And gen'ral songs the sprightly revel end."

Homer's Description of Achilles' Shield. (Pope's translation.)

W. RATHJENS

692 FLOWERS ..... *Samuel Barlow, Esq.*

F. R. LEE, R.A.

693 THE BEECH AVENUE ..... *N. Eckersley, Esq.*

JAMES HOLLAND

694 THE COLLEONE MONUMENT, VENICE ..... *S. G. Holland, Esq.*

E. DUNCAN

695 LANDING FISH AT WHITBY ..... *G. R. Clayton, Esq.*

J. A. HOUSTON, R.S.A.

696 NEWTON INVESTIGATING LIGHT ..... *Jesse Haworth, Esq.*

JAMES HOLLAND

697 VENICE ..... *J. E. Taylor, Esq.*

DANTE GABRIEL ROSSETTI

698 THE BLESSED DAMOZEL ..... *Mrs. Dyson Perrins*

699 PROSERPINA ..... *Mrs. W. A. Turner*

700 THE BELOVED ..... *George Rae, Esq,*

701 SIBYLLA PALMIFERA ..... *George Rae, Esq.*

702 DANTE'S DREAM ON THE DAY OF THE DEATH OF BEATRICE *Joseph Ruston, Esq.*

"Then Love said, 'Now shall all things be made clear :
Come and behold our lady where she lies.'
These 'wildering phantasies,
They carried me to see my lady dead,
Even as I there was led.
Her ladies with a veil were covering her,
And with her was such very humbleness,
That she appeared to say, I am at peace."—*Dante* ("Vita Nuova.")

DANTE GABRIEL ROSSETTI—*continued.*

703 A Vision of Fiammetta..... *Mrs. W. A. Turner*
704 The Water Willow ..... *Mrs. W. A. Turner*
705 Le Joli Cœur.....*Mrs. W. A. Turner*
706 Beata Beatrix.....*Fredrick Craven, Esq.*
707 The Blue Bower..... *Mrs. Dyson Perrins*

G. P. CHALMERS, R.S.A.

708 Old Letters .... *Albert Institute, Dundee*

M. D. MUTRIE

709 Camellias ..... *Mrs. Case*

SIR DAVID WILKIE, R.A.

710 The Letter Writer ..... *James Price, Esq*

WILLIAM COLLINS, R.A.

711 Early Morning, Sussex Coast.....*John Pender, Esq*

F. W. HULME

712 Early Spring—Crossing the Stream..... *Mrs. Dewhurst*

A. L. EGG, R.A.

713 Scene from "Taming of the Shrew" (Katherine and Petruchio)..... *Mrs. Thomas Agnew*

Pet. What is this? Mutton!
Servt. Ay.
Pet. Who brought it?
Servt. I.
Pet. 'Tis burnt; and so is all the meat.
What dogs are these? Where is the rascal cook?
How durst you, villains, bring it from the dresser,
And serve it thus to one that loves it not?
There, take it to you, trenchers, cup, and all.
(Throws the meat, &c., about the Stage.)

WILLIAM COLLINS, R.A.

714 Cromer Sands ..... *H. W. Eaton, Esq., M.P.*

SIR DAVID WILKIE, R.A.

715 Turkish Coffee House ..... *James Price, Esq.*

E. W. COOKE, R.A.

716 On the Scheldt .... *C. F. H. Bolckow, Esq.*

RANDOLPH CALDECOTT

717 The Three Jolly Huntsmen ...*The Right Hon. A. J. Mundella, M.P.*

W. MÜLLER

718 Near Gillingham ..... *Frederick Nettlefold, Esq.*

SIR R. COLLIER

719 The Stelvio Pass ..... *W. Hinmers, Esq.*

W. MÜLLER

720 Ancient Tombs and Dwellings in Lycia, Asia Minor *C. F. H. Bolckow, Esq.*

F. R. LEE, R.A., and T. S. COOPER, R.A.

721 Summer Breezes ..... *Colonel Hargreaves*

W. MÜLLER

722 Eel Bucks at Goring ..... *William Agnew, Esq.*

WILLIAM LINTON

723 Athens ..... *Mrs Fearenside*

W. MÜLLER

724 The Baggage Waggon ..... *Thomas Ashton, Esq.*

E. J. NIEMANN

725 The Wooden Walls of Old England ..... *R. Hobson, Esq.*

F. R. LEE, R.A.

726 Avenue at Althorp ..... *W. J. Carver, Esq.*

W. MULLER

727 Gillingham ..... *W. Tattersall, Esq.*

728 A River Scene ..... *G. C. Dewhurst, Esq.*

RANDOLPH CALDECOTT

729 The Girl I Left Behind Me ..... *City of Manchester*

W. MÜLLER

730 The Slave Market, Cairo ..... *W. Kenyon, Esq.*

WILLIAM LINTON

731 View of Lancaster ..... *Miss Estrigge*

W. MÜLLER

732 Scene on the Nile ..... *James Kenyon, Esq.*

733 Low Life—Welsh Interior ..... *James Worthington, Esq.*

734 The Slave Market ..... *J. E. Taylor, Esq.*

GALLERY NO. 9.

W. BRADLEY

735 A Bacchante ..... *F. Mehl, Esq.*

L. W. REYNOLDS

736 Mother and Child ..... *William Agnew, Esq.*

E. M. WARD, R.A.

737 The Night of Rizzio's Murder ..... *John Pender, Esq.*

"The Queen was sitting on the sofa, Rizzio in a chair opposite to her, and Murray's loose sister, the Countess of Argyle, on one side. Arthur Erskine, the equerry, Lord Robert Stuart, and the Queen's French physician were in attendance standing. Darnley placed himself on the sofa at his wife's side. She asked him if he had supped. He muttered something, threw his arm round her waist and kissed her. As she shrank from him, half surprised, the curtain was again lifted, and against the dark background, his corslet glimmering through the folds of a crimson sash, a steel cap on his head, and his face pale, as if he had risen from the grave, stood the figure of Ruthven. Glaring for a moment on Darnley, and answering his kiss with the one word 'Judas,' Mary Stuart confronted the awful apparition, and demanded the meaning of the intrusion. Pointing to Rizzio, and with a voice as sepulchral as his features, Ruthven answered, 'Let your man come forth, he has been here over long.' 'What has he done?' the Queen answered, 'he is here by my will.'"—*Vide Froude's History of England.*

RANDOLPH CALDECOTT

738 May Day ..... *City of Manchester*

739 Meeting of Shareholders—Declaration of Dividend *J. Edward Reiss, Esq.*

SIR A. W. CALLCOTT, R.A.

740 Italian Seaport ..... *J. Brunel, Esq.*

741 River Scene ..... *J Brunel, Esq.*

742 Trent ..... *J. Brunel, Esq.*

P. WESTCOTT

743 Sir R. Rawlinson, C.B. ..... *Sir R. Rawlinson, C.B.*

T. WEBSTER, R.A.

744 Practising for a Village Concert ..... *A. C. Burnand, E*

745 Sunday Morning ..... *John Pender, Esq.*

746 Playing Chess ..... *John Pender, Esq.*

JOHN LINNELL

747 Hillside Farm ..... *Daniel Thwaites, Esq.*

A. JOHNSTON

748 Family Prayer ..... *H. C. Renshaw, Esq.*

E. W. COOKE, R.A.

749 SCHEVENINGEN BEACH ..... *E. Atkinson, Esq.*

C. STANFIELD, R.A.

750 CAPTURE OF SMUGGLED GOODS ..... *Adam Dugdale, Esq.*

SIR J. WATSON GORDON, R.S.A.

751 JAMES HOULDSWORTH (OFF COLTNESS) ..... *James Houldsworth, Esq.*

T. CRESWICK, R.A.

752 UNDER THE BEECH TREES ..... *Excrs. of Henry Wilson, Esq.*

E. W. COOKE, R.A.

753 GOODWIN SANDS ..... *Lord Brassey*

H. O'NEIL, A.R.A.

754 LANDING OF H.R.H. THE PRINCESS ALEXANDRA AT GRAVESEND, MARCH 7TH, 1863. (The centre group consists of the Royal Family of Denmark) ..... *Richard Peacock, Esq., M.P.*

SIR J. WATSON GORDON, R.S.A.

755 SIR W. FAIRBAIRN (President of the British Association at the Manchester meeting held in September, 1861) *W. A. Fairbairn, Esq.*

T. CRESWICK, R.A., and W. P. FRITH, R.A.

756 HADDON HALL ..... *G. C. Dewhurst, Esq.*

J. F. HERRING, Sen.

757 THE BARON'S CHARGER ..... *H. C. Renshaw, Esq.*

DAVID ROBERTS, R.A.

758 PŒSTUM ..... *N. Eckersley, Esq.*

C. STANFIELD, R.A.

759 TILBURY FORT ..... *W. Tattersall, Esq.*

W. DYCE, R.A.

760 GETHSEMANE ..... *George Holt, Esq.*

C. BAXTER

761 THE DUCHESS ..... *J. Marshall Brooks, Esq.*

JOHN LINNELL

762 J. M. W. TURNER, R.A. ..... *Sir Charles Tennant, Bart.*

R. CARRICK

763 ANXIETY ..... *Jesse Haworth, Esq.*

R. ANSDELL, R.A.

764 POOR MAILIE ..... *R. M. Knowles, Esq.*

"Now honest Hughoe, dinna fail
To tell my master a' my tale,
And bid him burn this curs'd tether.

. . . . . .

This said, poor Mailie turn'd her head
And clos'd her e'en amang the dead."

Burns's poem of "Poor Mailie."

R. ANDSELL, R.A.—*continued.*

765 THE PET OF THE BOTHIE ..... *Richard Peacock, Esq., M.P.*

C. BAXTER

766 THE COUNTESS .....*J. Marshall Brooks, Esq.*

J. LINNELL

767 THE RIGHT HON. SIR ROBERT PEEL.....*H. C. Renshaw, Esq.*

R. CARRICK

768 JOYS .....*Jesse Haworth, Esq.*

W. E. J. DIGHTON

769 HAYMAKING, SONNING-ON-THAMES.....*E. Atkinson, Esq.*

A. L. EGG, R.A.

770 HENRIETTA MARIA IN DISTRESS, RELIEVED BY CARDINAL DE RETZ
Thomas Ashton, Esq.

"Cardinal de Retz, the principal leader of the Froude, paid a visit of enquiry on the 6th of January to learn what had become of the desolate Queen of England, after a series of furious skirmishes and slaughters which had convulsed Paris during the days immediately preceding the 6th of January. It was well he had not forgotten her, for her last loaf was eaten, her last faggot had been consumed, and she was destitute of the means of purchasing more."—*Strickland's Queens.*

771 THE NIGHT BEFORE NASEBY ..... *Abraham Haworth, Esq.*

JOHN LINNELL

772 WATERING PLACE..... *G. C. Dewhurst, Esq.*

J. T. LINNELL

773 CHERRY BLOSSOMS..... *W. J. Crossley, Esq.*

SIR C. EASTLAKE, P.R.A.

774 GASTON DE FOIX TAKING LEAVE OF HIS MISTRESS ON THE EVE OF THE BATTLE OF RAVENNA ..... *Mrs. H. Bolckow*

R. ANSDELL, R.A.

775 A HIGHLAND LOT FOR SALE..... *C. F. H. Bolckow, Esq.*

T. CRESWICK, R.A.

776 OLD ENGLAND ..... *C. F. H. Bolckow Esq.*

JAMES HOLLAND

777 GRAND HOTEL, VENICE—SUNSET.....*S. G. Holland, Esq.*

A. ELMORE, R.A.

778 LOUIS XIII. AND LOUIS QUATORZE .....*W. Waring, Esq.*

"When the little prince was brought to the King, after his christening, the latter asked the child what was his name? 'Louis Quatorze,' was the precocious reply. 'Not yet, my boy,' observed his parent."—*Crowe's History of France.*

A. ELMORE, R.A.—*continued.*

779 THE ORIGIN OF THE COMBING MACHINE ..... *Isaac Holden, Esq., M.P.*

This ingenious machine, now in general use in every silk, cotton, and woollen manufactory in Europe, which, to quote the words of Mr. Hawkshaw, President of the Institution of Civil Engineers, "acts with almost the delicacy of touch of the human fingers," cost its inventor, Joshua Heilman, of Alsace, a considerable fortune in fruitless efforts to bring it to perfection. Disheartened and nearly destitute, he returned to his native place to revisit his family, and whilst sitting by the fire, happening to turn round, perceived one of his daughters combing her hair, when an idea struck him. He had found that which was wanting, and to this simple incident was indebted for the perfecting of his invention.

JOHN LINNELL

780 REST ..... *N. Buckley, Esq.*

J. B. PYNE

781 WINDERMERE WATERHEAD ..... *Edward Chapman, Esq.*

D. MACLISE, R.A.

782 A WINTER'S TALE ..... *John Rylands, Esq.*

"In Winter's tedious nights sit by the fire with good old folks and let them tell the tales."—*Richard II., Act 5, Scene 1.*

SIR FRANCIS GRANT, P.R.A.

783 MRS. MARKHAM ..... *Col. F. Grant*

F. R. PICKERSGILL, R.A.

784 GENERAL SIR CHARLES NAPIER .....*Henry Graves, Esq.*

SIR FRANCIS GRANT

785 THE MELTON HUNT.....*The Duke of Wellington.*

1 Lord Gardner.
2 Lord Suffield.
3 Earl of Darlington.
4 Lord Macdonald.
5 Hon. Mrs. Villiers.
6 Countess of Wilton.
7 Lord Grey de Wilton.
8 Walter Little Gilmour, Esq.
9 The Earl of Wilton.
10 Hon. Augustus Villiers.
11 John White, Esq.
12 Sir F. Johnstone, Bart.
13 Prince Leichtenstein.
14 Sir David Baird, Bart.
15 Earl of Rosslyn.
16 Count Bathyany.
17 T. Haycock, Esq.
18 William Coke, Esq.
19 Prince Trutmansdorf.
20 John Moore, Esq.
21 Lord Archibauld St. Maur.
22 Sir James Musgrove, Bart.
23 Henry Greene, Esq.
24 Lord Cranstoun.
25 Mr. Chapman.
26 Mr. Godwin.
27 James Fairlie, Esq.
28 Marquis of Waterford.
29 Earl of Howth.
30 Captain Percy Williams.
31 Earl of Desart.
32 Mr. Marriott.
33 Mr. King.
34, 35 First and Second Whips.
36 Mr. Treadwell, Huntsman.
37 Master Robert Baird.

A. ELMORE, R.A.

786 KATHERINE AND PETRUCHIO ("Taming of the Shrew") *Mrs. Thomas Agnew*

GEORGE PATTEN, A.R.A.

787 SIR THOMAS BAZLEY, BART (M.P. for the City of Manchester, 1857—1880)..... *Sir T. S. Bazley, Bart.*

E. M. WARD, R.A.

788 MACAULAY AT THE ALBANY.....*Richard Hurst, Esq*

T. WEBSTER, R.A.

789 THE FROWN ..... *Daniel Thwaites, Esq.*

H. DAWSON

790 LINCOLN CATHEDRAL .....*R. L. Chance, Esq.*

A. ELMORE, R.A.

791 HOTSPUR AND THE FOP .....*Thomas Ashton, Esq.*

"I remember, when the fight was done,
When I was dry with rage and extreme toil,
Breathless faint, leaning upon my sword,
Came there a certain lord, neat, trimly dressed,
Fresh as a bridegroom ; and his chin, new reap'd,
Showed like a stubble land at harvest home;
He was perfumed like a milliner;
And twixt his finger and his thumb he held
A pouncet-box, which, ever and anon,
He gave his nose, and took't away again ;
Who, therewith angry, when it next came there,
Took it in snuff—and still he smil'd and talk'd ;
And as the soldiers bore dead bodies by,
He called them untaught knaves, unmannerly,
To bring a slovenly, unhandsome corse,
Betwixt the wind and his nobility."

Henry IV. (Part 1), Act 1, Scene 3.

W. E. FROST, R.A.

792 EUPHROSYNE.....*J. L. Newall, Esq.*

"Haste thee, nymph, and bring with thee
Jest and youthful jollity ;
Quips and cranks and wanton wiles,
Nods and becks, and wreathed smiles,
Such as hang on Hebe's cheek,
And love to live in dimple sleek ;
Sport, that wrinkled Care derides,
And Laughter, holding both his sides :
Come and trip it, as you go,
On the light fantastic toe."—*L'Allegro.*

T. CRESWICK, R.A.

793 ON THE TEES ..... *Henry Dewhurst, Esq.*

794 THE FORGE ..... *David Ainsworth, Esq.*

A. ELMORE, R.A.

795 RELIGIOUS CONTROVERSY IN THE TIME OF LOUIS XIV. *Charles Waring, Esq.*

"The King had declared his intention 'to employ only good Christians in public situations,' meaning Roman Catholics, and the most tempting encouragement was held out to such as should set a public example by abjuring their Protestant tenets. Accordingly it was not uncommon for an intending convert of rank to invite some leading Protestant clergyman to meet some leading Catholic in his house, there to debate respecting their differences, to satisfy the mind of their host which religion was preferable."—*Louis XIV. et son Siècle.*

R. B. FAULKNER

796 MR. ISAAC CREWDSON (a distinguished Citizen of Manchester, d. 1843). *Crewdson Waterhouse, Esq.*

E. M. WARD, R.A.

797 THACKERAY IN HIS STUDY, 1844 ..... *Richard Hurst, Esq.*

T. WEBSTER, R.A.

798 THE SMILE ..... *Daniel Thwaites, Esq.*

C. BAXTER

799 BEAMING EYES ..... *J. Marshall Brooks, Esq.*

JAMES HOLLAND

800 THE BARBARIGO PALACE ..... *S. G. Holland, Esq.*

J. B. PYNE

801 VENICE ..... *Charles Chapman, Esq.*

MARK ANTHONY

802 THE DESERTED CHURCH ..... *T. Horne, Esq.*

D. MACLISE, R.A.

803 EVE OF ST. AGNES ..... *C. F. H. Bolckow, Esq.*

P. F. POOLE, R.A.

804 QUEEN OF THE HARVEST ..... *Mrs. Forshaw*

JAMES HOLLAND

805 PIAZZA DI SAN GIOVANNI A PAOLO, VENICE ..... *J. Orrock Esq.*

COPLEY FIELDING

806 VESSELS IN A BREEZE, OFF BRIDLINGTON PIER... *J. Edward Reiss, Esq.*

W. BRADLEY

807 JOHN BROOKS, ESQ. (a Citizen of Manchester, and a prominent Member of the Anti-Corn Law League) *J. Marshall Brooks, Esq.*

E. M. WARD, R.A.

808 EVE OF ST. BARTHOLOMEW. Visit of Charles IX., Catherine de Médicis, and the Duc d'Anjou to Admiral Coligny, after his attempted assassination on the point of the massacre ..... *Holbrook Gaskell, Esq.*

Charles IX., accompanied by his mother and brother, visited the suffering Coligny. During the visit, the sombre and menacing attitude of some, the whisperings, the goings and comings, the signs of want of respect in persons near the apartment, and the murmured conversation of the King with Coligny, excited the anger of Catherine and her son. . . . On his arrival, the King first ordered the admiral's people to leave the room, except Teligny and his wife (the son-in-law and daughter of Coligny)."—*History of the Dukes of Guise, by René de Bouillé.*

DAVID ROBERTS, R.A.

809 NEW PALACE OF WESTMINSTER (from the River Thames) *Chas Lucas, Esq.*

810 RUINS OF BAALBEC ..... *R. Brocklebank, Esq.*

R. ANSDELL, R.A.

811 TREADING OUT THE CORN IN ANDALUSIA..... *E. Naylor, Esq.*

DANIEL MACLISE, R.A.

(Born at Cork, 1811 ; d. 1871.)

812 MERRY CHRISTMAS IN THE BARON'S HALL..... *National Gallery of Ireland*

Descending the staircase, towards the centre of the picture, the ceremony of bringing in the boar's head is represented. A fair and large boar's head was served in upon a silver platter with minstrelsye, crowned with bays and sweet rosemary, borne by a serving man with green scarf, chosen for his "height and lustiness," preceded by the master of the revels, or Lord of Misrule, chaunting a carol in its praise.

Caput apri defero
Redens laudes Domino.
The boar's head in hand bring I,
With garlands gay and rosemary ;
I pray you all sing merrily—
Qui estis in convivio.

The group on the right in front is chiefly composed of the Christmas mummers and masquers regaling. One of the principal is Father Christmas, with his false beard, dressed in fur and crowned with holly. He is mingling the wassail in the bowl "garnished with ribbons." St. Distaff attends him with the roasted pippins, peculiar to this beverage.

DAVID ROBERTS, R.A.

813 THE THAMES AT GREENWICH..... *Charles Lucas, Esq.*

814 INTERIOR OF THE DUOMO AT MILAN..... *Daniel Thwaites, Esq.*

W. BRADLEY

815 MRS. BROOKS..... *J. Marshall Brooks, Esq.*

P. F. POOLE, R.A.

816 THE SONG OF THE TROUBADOURS..... *C. F. H. Bolckow, Esq.*

GALLERY NO. 10.

J. W. WATERHOUSE, A.R.A.

817 THE MAGIC CIRCLE ... *Purchased by the President and Council of the Royal Academy, under the terms of the Chantrey Bequest, and lent by them.*

SIR A. W. CALLCOTT, R.A.

818 VIEW OF GHENT ..... *James Worthington, Esq.*

C. E. PERUGINI

819 GIRL READING ..... *Sir William Eden, Bart*

J. CHARLTON

820 FORTUNE'S FAVOURITES ..... *William Barlow, Esq.*

A. ELMORE, R.A.

821 LIFE IN ALGIERS ..... *David Jardine, Esq.*

822 THE STORY OF GRISELDE ..... *J. L. Kennedy, Esq.*

"And as she wold over the threswold gon,
The Markis came and gan hire far to call
And she set down hire water pot—anon
Besides the threswold gin an oxe's stall."
—*Chaucer's Clerk's Tale.*

ROBERT TONGE

823 PEEP INTO SHROPSHIRE ..... *W. Coltart, Esq.*

J. MORGAN

824 THE QUADRILLE ..... *R. H. Bolton, Esq.*

DAVID COX

825 DRIVING HOME THE FLOCK ..... *C. F. H. Bolckow, Esq.*

826 ROOK SHOOTING ..... *James Price*

827 RETURN FROM LABOUR ..... *James Houldsworth, Esq.*

828 RIVER SCENE ..... *Peter Ellen, Esq.*

829 BETTWS CHURCHYARD ..... *J. Gillott, Esq.*

830 GOING TO THE HAYFIELD ..... *F. Nettlefold, Esq.*

831 THE SKYLARK ..... *F. Nettlefold, Esq.*

832 RHYL SANDS ..... *Corporation of Birmingham*

833 CHURCH AT BETTWS-Y-COED ..... *Daniel Thwaites, Esq.*

834 COUNTING THE FLOCK ..... *C. F. H. Bolckow, Esq.*

835 PEACE AND WAR ..... *J. Cann, Jun., Esq.*

836 GOING TO MARKET ..... *J. Gillott, Esq.*

837 BOYS FISHING ..... *Jesse Haworth, Esq*

838 STEPPING STONES ON THE CONWAY ..... *J. C. Harter, Esq*

W. MÜLLER

839 On the Lagunes, Venice ..... *J. E. Taylor, Esq.*

SIR CHARLES EASTLAKE, P.R.A.

840 Italian Pilgrims ..... *H. Graves, Esq.*

HEYWOOD HARDY

841 Fighting Lions ..... *Richard Peacock, Esq., M.P.*

"Fierce as conflicting fire the combat burns,
And now it rises, now it sinks by turns."
—*Iliad of Homer.*

SIR J. WATSON-GORDON, R.S.A.

842 David Cox ..... *Birmingham and Midland Institute*

JOHN LINNELL

843 Rest ..... *N. Buckley, Esq.*

H. LE JEUNE, A.R.A.

844 At the Spring ..... *Sir J. C. Lee*

J. MORGAN

845 A Feather in Her Cap ..... *Joseph Dugdale, Esq.*

W. BRADLEY

846 Lancashire Witch ..... *William Agnew, Esq.*

RANDOLPH CALDECOTT

847 Gardener's Little Daughter ..... *Newton Broadbent, Esq.*

G. P. CHALMERS, R.S.A.

848 Aitchie ..... *J. Forbes-White, Esq., LL.D.*

ROBERT GAVIN, R.S.A.

849 Children in the Wood ..... *R. Brocklebank, Esq.*

A. SOLOMON

850 Sour Grapes ..... *R. P. Harding, Esq.*

G. E. HERING

851 Lago Maggiore ..... *E. Atkinson, Esq.*

T. SIDNEY COOPER, R.A.

852 Sheep ..... *G. C. Dewhurst, Esq.*

853 Cattle ..... *G. C. Dewhurst, Esq.*

JAMES HOLLAND

854 Sunset at Sea ..... *George Holt, Esq.*

WILLIAM DYCE, R.A.

855 John Knox Administering the Sacrament ..... *J. E. Taylor, Esq.*

856 Soliloquy of Henry VI ..... *John Pender, Esq.*

857 Woman of Samaria ..... *John Pender, Esq.*

858 Beatrice ..... *William Agnew, Esq.*

WILLIAM DYCE, R.A.—*continued.*

859 TITIAN PREPARING TO MAKE HIS FIRST ESSAY IN COLOURING ..... *J. Brand, Esq.*

Ridolfi states that Titian, when a little boy, gave the earliest indication of his future eminence as a colourist by drawing a Madonna, which he coloured with the juices of flowers.

860 SHIRREFBURN LOCK ..... *J. Brand, Esq.*

861 FLIGHT INTO EGYPT ..... *J. Brand, Esq.*

862 PEGWELL BAY ..... *J. Brand, Esq.*

863 ST. JOHN LEADING MARY FROM THE TOMB ..... *J. Brand, Esq.*

A. L. EGG, R.A.

864 PEPY'S INTRODUCTION TO NELL GWYNNE ..... *C. F. H. Bolckow, Esq.*

"23rd, &c. . . . Thence to the King's house, and saw *The Humorous Lieutenant*, a silly play, I think; only the spirit in it, that grows very tall, and then sinks again to nothing, having two heads, breeding upon one; and then Knipp's singing did please us. Here, in a box above, we spied Mrs. Pierce; and going out, they called us, and so we staid for them; and Knipp took us all in and brought to us Nelly, a most pretty woman, who acted the great part of 'Cœlia' to-day very fine, and did it pretty well. I kissed her, and so did my wife, and a mighty pretty soul she is. We also saw Mrs. Ball, which is my little Roman nose black girl, that is mighty pretty. She is usually called Betty. Knipp made us stay in the box and see the dancing, preparatory for to-morrow for *The Goblins*, a play of Suckling's, not acted these twenty-five years, which was pretty. And so away thence, pleased with this sight also, especially kissing of Nell," &c.

MRS. E. M. WARD

865 CHATTERTON, 1765 ..... *Holbrook Gaskell, Esq.*

"Each Saturday he (Chatterton) returned from 'Colston's' (the Bristol Bluecoat) School . . . . and hastened home to the happy solitude of the attic he had appropriated as his study under his mother's roof. His delight was to lock himself up in this little garrett, with his books, papers, and drawing materials, and there . . . . he is found with his parchments, great piece of ochre in a brown pan, pounce-bags full of charcoal dust, and also a bottle of black-lead powder. Mrs. Edkins (his foster-mother) relates:—When she could get into his room she would. Once he put his foot on a parchment on the floor to prevent her taking it up, saying, 'You are too curious and clear-sighted. I wish you would bide out of the room. It is my room.'"—*Vide Daniel Wilson's "Life of Chatterton."*

HEYWOOD HARDY

866 THE LOST TRACK ..... *Joseph Moseley, Esq.*

CECIL LAWSON

867 THE WET MOON ..... *Henry Mason, Esq.*

J. F. LEWIS, R.A.

868 THE MIDDAY MEAL..... ..... *Mrs. Dyson Perrins*

P. F. POOLE, R.A.

869 MOTHER AND CHILD..... *Henry Dewhurst, Esq.*

A. ELMORE, R.A.

870 MARY QUEEN OF SCOTS AND CHRISTOPHER NORTON AT BOLTON CASTLE ..... *James Taylor, Esq.*

"Another time Mary Stuart had something to say to Norton; and this scene—so distinct is the picture—may be told in his own words: 'One day when the Queen of Scots, in winter (1568-9), had been sitting at the window-side knitting of a work, and after the board covered, she rose and went to the fireside, and, making haste to have the work finished, would not lay it away, but worked at it the time she was warming of herself. She looked for one of her servants, which, indeed, were all gone to fetch up her meat, and, seeing none of her own folk there, called me to hold her work, who was looking at my Lord Scrope and Sir Francis Knollys playing of chess. I went, thinking I had deserved no blame, and that it should not have become me to have refused to do it, my Lady Scrope standing there, and many gentlemen in the chamber.' . . . . . Two years later the poor youth was under the knife of the executioner at Tyburn."—*Froude's History of England.*

T. CRESWICK, R.A.

871 THE WEST STILL GLIMMERS WITH DEPARTING DAY... *George Holt, Esq.*

MARK ANTHONY

872 ERITH CHURCH ..... *W. H. Houldsworth, Esq., M.P.*

J. F. LEWIS, R.A.

873 BAZAAR AT CAIRO ..... *David Price, Esq*

P. F. POOLE. R.A.

874 LIGHTING THE BEACON ON THE COAST OF CORNWALL, AT THE APPEARANCE OF THE SPANISH ARMADA..... *B. Armitage, Esq.*

"For swift to east, and swift to west the ghastly war-flame spread,
High on St. Michael's Mount it shone; it shone on Beachy Head
Far on the deep the Spaniard saw, along each Southern shire,
Cape beyond cape, in endless range, those twinkling points of fire."

T. CRESWICK, R.A.

875 OVER THE SANDS ..... *David Jardine, Esq.*

P. F. POOLE, R.A.

876 GREEK COURTSHIP ..... *Mrs. Thomas Agnew*

M. J. LAWLESS

877 THE SICK CALL..... *W. Coltart, Esq.*

"Is any man sick among you? Let him bring in the priests of the Church, and let them pray over him, anointing him with oil in the name of the Lord."—*St. James v. 14.*

CECIL LAWSON

878 The Pool ..... *Henry Mason, Esq.*

JOHN LINNELL

879 Shepherds Under the Hawthorn Tree ..... *James Taylor, Esq.*

A. SOLOMON

880 "Le Malade Imaginaire" ..... *R. P. Harding, Esq.*

JAMES STARK

881 Landscape in Norfolk ..... *J. S. Bolton, Esq.*

P. F. POOLE, R.A.

882 At the Spring ..... *G. C. Dewhurst, Esq.*

E. RATHJENS.

883 Christmas Roses ..... *Samuel Barlow, Esq.*

W. MÜLLER

884 The Pyramids, from the Nile ..... *Mrs. Dyson Perrins*

JAMES HOLLAND

885 Venice ..... *Abel Buckley, Esq.*

E. J. GREGORY, A.R.A.

886 Grand Canal, Venice ..... *C. J. Galloway, Esq.*

W. DAVIS

887 Port Banatyne ..... *George Rae, Esq.*

H. LE JEUNE, A.R.A.

888 The Artist's Model ..... *J. W. Radcliffe, Esq.*

W. DAVIS

889 Harrowing ..... *Albert Wood, Esq.*

W. LINTON

890 View of Snowdon ..... *Eli Spencer, Esq.*

891 View of Snowdon (companion) ..... *Eli Spencer, Esq.*

WILLIAM LINNEL

892 Haying and Maying ..... *Mrs. A. Dewhurst*

JAMES HOLLAND

893 The Rialto ..... *Mrs. Dyson Perrins*

E. A. WATERLOW

894 The Shepherd's Return ..... *The Artist*

S. E. WALLER

895 'Twixt Love and Duty ..... *John C. Holder, Esq.*

JOHN LINNELL

896 Cornfield ..... *Charles Chapman, Esq.*

R. LEHMANN

897 Portrait of R. Browning ..... *The Artist*

F. W. W. TOPHAM

898 THE WINGED PENSIONERS OF ASSISI .....*J. C. Haslam, Esq.*

C. R. LESLIE, R.A.

899 COLUMBUS AND THE EGG ..... *J. Broughton Dugdale, Esq.*

900 DEATH OF QUEEN CATHERINE ..... *J. Broughton Dugdale, Esq.*

W. F. YEAMES, R.A.

901 AMY ROBSART .....*Purchased by the President and Council of the Royal Academy, under the terms of the Chantrey Bequest, and lent by them.*

"Robert Dudley, Earl of Leicester, being the great favourite of the Queen, Elizabeth, it was thought she would have made him her husband. To this end, to free himself of all obstacles, he had his wife, Amy Robsart, conveyed to the solitary house of Cumnor Hall, in Berkshire, inhabited by Anthony Forster, his servant. This same Forster, in compliance with what he well knew to be the Earl's wishes, came, with others, in the dead of night, to the lady's bedchamber, and stifled her in bed, and flung her downstairs, thereby believing the world would have thought it a mischance, and so blinded their villainy. The morning after, with the purpose that others should know of her end, did Forster, on pretence of carrying out some behest of the Countess, bring a servant to the spot where the poor lady's body lay at the foot of the stairs."—*See Aubrey's "History of Berkshire."*

HENRY DAWSON

902 GREENWICH..... *W. S. Hobson, Esq.*

SIR J. WATSON GORDON

903 PORTRAIT OF DAVID COX..... *Birmingham Midland Institute*

T. SIDNEY COOPER, R.A.

904 AN ENGLISH FARMSTEAD .....*Sir Humphrey de Trafford, Bart.*

W. MULREADY, R.A.

905 INTEGRITY ..... *R. Brocklebank, Esq.*

"Train up a child in the way he should go, and when he is old he will not depart from it."—*Proverbs, chap.* xxii. *verse* 6.

906 THE WHISTONIAN CONTROVERSY (*Vide* "Vicar of Wakefield," chap. ii.) .....*Earl of Northbrook*

907 BURCHELL AND SOPHIA IN THE HAYFIELD ..... *Earl of Northbrook*

E. HARGITT

908 AN OLD ENGLISH HOME.....*The Artist*

W. H. B. DAVIS, R.A.

909 THE WANDERERS .....*Edward Cross, Esq.*

JOHN LINNELL

910 SUNSET.....*Richard Hurst, Esq.*

ROSE MAGNUS

911 LAMPLIGHT ..... *The Artist*

ARTHUR STOCKS

912 THE LAST SACRAMENT ..... *Mrs. Mark Firth*

JAMES HOLLAND

913 VENICE..... *F. Elkington, Esq.*

E. BLAIR LEIGHTON

914 THE SECRET .....*T. J. Hirst, Esq.*

W. S. BURTON

915 CAVALIER AND THE PURITAN .....*Albert Wood, Esq.*

A. ELMORE, R.A.

916 INVENTION OF THE STOCKING LOOM.....*Sir Thomas S. Bazley, Bart.*

William Lee, of St. John's College, Cambridge, was, about the year 1589, expelled from the University for marrying contrary to the statutes. Having no fortune, the wife was obliged to contribute to their joint support by knitting; and Lee, watching the motion of her fingers, conceived the idea of imitating those movements by a machine.

C. E. JOHNSON

917 THE HORSE FAIR ..... *T. Richards, Esq.*

J. FARQUHARSON

918 A JOYLESS WINTER'S DAY ..... *Purchased by the President and Council of the Royal Academy, under the terms of the Chantrey Bequest, and lent by them.*

P. H. CALDERON, R.A.

919 APHRODITE ..... *Sir B. Samuelson, Bart., M.P.*

C. BURTON BARBER

920 COAXING IS BETTER THAN SCRATCHING.....*J. C. Eno, Esq.*

E. J. GREGORY, A.R.A.

921 DRAWING-ROOM DAY IN PICCADILLY.....*Humphrey Robert, Esq.*

ERSKINE NICOL, A.R.A.

922 THE FLY FISHER.....*Richard Peacock, Esq., M.P.*

W. WYLD

923 ROTTERDAM..... .....*Eli Lees, Esq.*

H. W. B. DAVIS, R.A.

924 NOON .....*Charles Churchill, Esq.*

W. BRADLEY

925 RT. HON. W. E. GLADSTONE, M.P. .....*Rt. Hon. W. E. Gladstone, M P.*

FRANK DICKSEE, A.R.A.

926 A LOVE STORY.....*S. G. Holland, Esq.*

"In whispers, like the whispers of the leaves
That tremble round a nightingale."—*Tennyson.*

J. C. HOOK. R.A.

927 COAL SCHOONER .....*John Brinten, Esq., M.P*

SIR F. LEIGHTON, BART., P.R.A.

928 PHŒBE.....*John Pender, Esq.*

J. C. HOOK, R.A.

929 SEASHORE ..... *Mrs. Thomas Agnew*

L. ALMA TADEMA, R.A.

930 DR. WASHINGTON EPPS ....*Dr. Washington Epps.*

VAL C. PRINSEP, A.R.A.

931 SUNSET ON THE LAGUNES, VENICE..... .*Mrs. J. K. Cross.*

PETER GRAHAM, R.A.

932 THE GENTLY HEAVING TIDE.....*Sir T. Fowell Buxton, Bart.*

G. H. BOUGHTON, A.R.A.

933 MARKEN .....*J. H. Hutchinson, Esq.*

VAL C. PRINSEP, A.R.A.

934 EARLY SUMMER.....*Joseph J. Armitage, Esq.*

SIR NOEL PATON, R.S.A.

935 OSKOLD AND THE ELLE-MAIDS (Spenser's "Fairie Queen")
R. Bennett, Esq.

T. SIDNEY COOPER, R.A.

936 CANTERBURY MEADOWS.....*John Mark, Esq.*

MARCUS STONE, R.A.

937 REJECTED .....*Andrew Knowles, Esq.*

J. C. HOOK, R.A.

938 THE RETURN OF TORELLO .....*Albert Wood, Esq.*

HENRY WALLIS

939 ELAINE.....*Hollbrook Gaskell, Esq.*

"In her right hand the lily, in her left
The letter; all her bright hair streaming down;
And all the coverlet was cloth of gold,
Drawn to her waist, and she herself in white,
All but her face: and that clear-featured face
Was lovely, for she did not seem as dead,
But fast asleep, and lay as though she smiled."—*Tennyson.*

W. P. FRITH, R.A.

940 CHARLES DICKENS IN HIS STUDY..... .....*F. H. Cosens, Esq.*

SCULPTURE.

S. ONSLOW FORD

941 HENRY IRVING AS HAMLET ..... *The Artist*

T. STIRLING LEE

942 DAWN OF WOMANHOOD.....*The Artist*

H. CALDER MARSHALL, R.A.

943 UNDINE..... .....*The Artist*

GALLERY No. 11.

WATER COLOUR DRAWINGS. DRAWINGS IN BLACK AND WHITE. ENGRAVINGS AND ETCHINGS.

ENGRAVINGS.

C. G. LEWIS

944 DANIEL IN THE LION'S DEN (after Riviere) ..... *H. G. Creus, Esq.*

T. L. ATKINSON

945 THE FORESTER'S FAMILY (after Landseer) ..... *John Benton, Esq.*

JOHN BURNET

946 THE CHALLENGE (after Landseer)..... *Charles S. Agnew, Esq.*

C. G. LEWIS

947 HUNTERS AT GRASS (after Landseer)..... *John Benton, Esq.*

R. B. PARKES

948 THE NEW WHIP (after Burton Barber)..... *Philip Kessler, Esq.*

B. P. GIBBON

949 BE IT EVER SO HUMBLE, THERE IS NO PLACE LIKE HOME (after Landseer)..... *Charles S. Agnew, Esq.*

C. G. LEWIS, 1847

950 THE OTTER HUNT (after Landseer) ..... *J. Fernyhough, Esq.*

951 SHOEING (after Landseer) ..... *T. Biddulph, Esq.*

J. R. JACKSON

952 OTTER AND SALMON (after Landseer) ... .*C. J. Waddell, Esq.*

C. G. LEWIS

953 A RANDOM SHOT (after Landseer) .....*Charles S. Agnew, Esq.*

954 SANCTUARY (after Landseer) .....*Charles S. Agnew, Esq.*

955 A COVER HACK (after Landseer).....*H. Galloway, Esq.*

WATER-COLOUR DRAWINGS.

J. W. WHITTAKER

956 CAPEL CURIG, STORM COMING ON.....*W. Barlow, Esq.*

SIR JOHN GILBERT, R.A.

957 SCENE FROM DON QUIXOTE .....*Jesse Haworth, Esq.*

E. G. WARREN, R.I.

958 CORNFIELD ..... *J. A. Railton, Esq.*

F. TAYLER, R.W.S.

959 RETURN FROM THE RIDE ..... *Mrs. Platt.*

W. WYLD

960 MILAN CATHEDRAL ..... *J. C. Harter, Esq.*

SIR F. W. BURTON

961 THE SQUIRE ..... *John Pender, Esq.*

F. DILLON, R.I.

962 ISLAND OF PHILOE FROM THE NORTH ..... *The Artist.*

W. COLLINGWOOD

963 THE GORNER GLACIER ..... *R. P. Steele, Esq.*

COPLEY FIELDING

964 CADER IDRIS ..... *N. Eckersley, Esq.*

C. EARLE, R.I.

965 FOUNTAINS IN THE VILLA BORGHESE, ROME ..... *Mrs. Truminger*

H. MOXON COOK

966 SNOW-COVERED HEIGHTS OF ARRAN ..... *Earl of Derby*

T. R. LAMONT

967 GLASGERION ..... *C. H. Bailey, Esq.*

E. LUNDGREN

968 IN THE CLOISTERS AT SEVILLE ..... *Mrs. Platt*

WARD HEYS

969 BOLTON ABBEY ..... *The Artist*

DAVID COX

970 CALAIS PIER ..... *Abel Buckley, Esq.*

S. J. HODSON

971 LA PLACE, ABBEVILLE ..... *Mrs. Williams*

J. W. WHITTAKER

972 LLYN IDWAL, IN A SNOWSTORM ..... *W. Barlow, Esq.*

F. POWELL, R.W.S.

973 LOCH CORUISK, ISLE OF SKYE ..... *Mrs. Corbett*

A. C. GOW, A.R.A.

974 THE REQUISITIONISTS ..... *W Cuthbert Quilter, Esq., M.P.*

CARL HAAG

975 AN ITALIAN GIRL ..... *Rev. C. J. Sale*

LOUIS HAGHE

976 INTERIOR OF CATHEDRAL, SIENNA ..... *J. Macandrew, Esq.*

SUTTON PALMER

977 WILLOWS: A STUDY NEAR ARUNDEL ..... *J. Macandrew, Esq.*

VICAT COLE, R.A.

978 HARVEST SCENE..... *John Lomax, Esq.*

ENGRAVINGS AND ETCHINGS.

THOMAS LANDSEER, A.R.A.

979 BRAEMAR (after Landseer) ..... *James Lowe, Esq*
980 MORNING (after Landseer)... ..... *J. Fernyhough, Esq.*
981 THE DEER PASS (after Landseer) ..... *Emil Reiss, Esq.*
982 MONARCH OF THE GLEN (after Landseer) ..... *Emil Reiss, Esq.*
983 THE HORSE FAIR (after Rosa Bonheur) .... *Mark Price, Esq.*
984 LAYING DOWN THE LAW (after Landseer) ..... *F. H. Oldham, Esq.*
985 DRIVE OF DEER (after Landseer) ..... *Duncan Matheson, Esq.*
986 A DEER FAMILY (after Landseer)..... *J. E. Buckley, Esq.*
987 NIGHT (after Landseer)..... ..... *J. Fernyhough, Esq.*
988 STAG AT BAY (after Landseer) .... *E. Hulton, Esq.*
989 DIGNITY AND IMPUDENCE (after Landseer) ..... *Harold Lee, Esq.*

JOHN OUTRIM

990 MOUNTAIN TOP (after Landseer) ..... *S. Baerlein, Esq.*

H. HERKOMER, A.R.A.

991 "CALLER HERRIN" (after Millais)..... *W. B. Harrison, Esq.*

C. W. WASS

992 WAITING FOR THE COUNTESS (after Landseer) ... *C. Morland Agnew, Esq.*

CHARLES MOTTRAM

993 UNCLE TOM AND HIS WIFE FOR SALE (after Landseer) *G. F. Williams, Esq.*

T. OLDHAM BARLOW, R.A.

994 LA GLORIA, A SPANISH WAKE (after Phillip) ..... *The Artist*
995 EFFIE DEANS (after Millais) ..... *The Artist*
996 THE HOUSE OF COMMONS IN 1860 (after Phillip) ..... *The Artist*
997 THE BRIDE OF LAMMERMOOR (after Millais) ..... *The Artist*
998 THE MARQUIS OF SALISBURY (after Millais) ..... *The Artist*
999 LORD TENNYSON (after Millais) ..... *The Artist*
1000 CARDINAL NEWMAN (after Millais) ..... *The Artist*
1001 RIGHT HON. W. E. GLADSTONE (after Millais) ..... *The Artist*

W. HENDERSON

1002 RIGHT HON. JOSEPH CHAMBERLAIN (after Holl) ... *M. B. Huish, Esq.*

H. HERKOMER, A.R.A.

1003 The Earl of Beaconsfield (after Millais) *J. W. Maclure, Esq., M.P.*

THOMAS LANDSEER, A.R.A.

1004 Doubtful Crumbs (after Landseer) ..... *S. Baerlein, Esq.*

SAMUEL COUSINS, R.A.

1005 "Saved" (after Landseer) .....*H. G. Crews, Esq.*
1006 Marie Antoinette and Louis XVI. in the Prison of the Temple (after E. M. Ward) .....*H. G. Crews, Esq.*
1007 The Surprise (after Dubuffe) .....*Dr. Lloyd Roberts*
1008 The Strawberry Girl (after Reynolds) .....*Dr. Lloyd Roberts*
1009 Samuel Cousins, Esq., R.A. (after Long) ..... *P. E. Power, Esq.*
1010 Lady Spencer and Child (after Reynolds) .....*P. E. Power, Esq.*
1011 Connoisseurs (after Landseer) .....*H. G. Crews, Esq.*
1012 No! (after Millais) .....*H. Hesketh, Esq.*
1013 Her Majesty the Queen (after Dickenson).....*P. E. Power, Esq.*
1014 New-laid Eggs (after Millais) .....*H. Hesketh, Esq.*
1015 H.R.H. the Prince of Wales as a Sailor Boy (after Winterhalter).....*P. E. Power, Esq.*
1016 H.R.H. the Princess of Wales .....*P. E. Power, Esq.*
1017 Her Most Gracious Majesty Queen Victoria Receiving the Sacrament at her Coronation (after C. R. Leslie) *Henry Graves, Esq.*
1018 Midsummer Night's Dream (after Landseer) ..... *Mark Price, Esq.*
1019 Bolton Abbey in the Olden Time (after Landseer)... *H. G. Crews, Esq.*
1020 Children of the Abercorn Family (after Landseer) *P. E. Power, Esq.*
1021 Mrs. Braddyll (after Reynolds) ..... *P. E. Power, Esq.*
1022 Yes or No? (after Millais) ..... *H. Hesketh, Esq.*
1023 The Maid and the Magpie (after Landseer) ..... *John Benton, Esq.*
1024 Moretta, a Venetian Girl (after Leighton)..... *James Lowe, Esq.*
1025 Miss Penelope Boothby, "The Mob Cap" (after Reynolds) *Thomas Frost, Esq.*
1026 Hon. Anne Bingham (after Reynolds) ..... *P. E. Power, Esq.*
1027 Simplicity (after Reynolds) ..... *P. E Power, Esq.*

F. C. LEWIS

1028 H.R.H. The Prince Consort (after Winterhalter)...*Henry Graves, Esq.*
1029 Her Majesty the Queen (after Winterhalter) ..... *Henry Graves, Esq.*

GEORGE ZOBEL

1030 Little Swansdown (after Storey) .....*S. Baerlein, Esq.*
1031 Sweet Margery (after Storey) .....*S. Baerlein, Esq.*

W. H. SIMMONS

1032 The Sick Monkey (after Landseer) ..... *S. Baerlein, Esq.*

JAMES STEPHENSON

1033 Ophelia (after Millais)..... *Henry Graves, Esq.*

1034 Taming the Shrew (after Landseer) ..... *Henry Graves, Esq.*

T. L. ATKINSON

1035 Wellington Re-Visiting the Field of Waterloo (after Landseer) *Henry Graves, Esq.*

1036 Peace (after Landseer) ..... *H. G. Crews, Esq.*

1037 War (after Landseer) ..... *H. G. Crews, Esq.*

F. STACPOOLE, A.R.A.

1038 The Roll Call (after Miss E. Thompson) ..... *M. B. Huish, Esq.*

1039 Circe and the Companions of Ulysses (after Riviere) *George W. Agnew, Esq.*

1040 Sympathy (after Riviere) ..... *F. Hepworth, Esq.*

1041 School Revisited (after Leslie) ..... *George W. Agnew, Esq.*

1042 Playfellows (after Riviere) .... *Henry Dewhurst, Esq.*

1043 Persepolis, the Ancient Capital of Persia... *George W. Agnew, Esq.*

"They say the lion and the lizard keep
The halls where Jamshyd gloried and drank deep."

1044 A Pot-pourri: Rose Leaves and Lavender (after Leslie) *C. Morland Agnew, Esq.*

1045 Charity (after Riviere) ..... *O. E. Heys, Esq.*

T. L. ATKINSON

1046 Let Sleeping Dogs Lie (after Riviere) ..... *T. Woodcock, Esq.*

W. H. SIMMONS

1047 The Lion at Home (after Rosa Bonheur)..... *J. Fernyhough, Esq.*

J. B. PRATT

1048 Puss in Boots (after Paten) ..... *James Ashcroft, Esq.*

CHARLES MOTTRAM

1049 The Scapegoat (after Holman Hunt)..... *W. H. Doeg, Esq.*

G. T. DOO, R.A.

1050 The Raising of Lazarus .... *Henry Graves, Esq.*

R. WALLIS

1051 Approach to Venice (after Turner) ..... *W. Hinmers, Esq.*

J. T. WILLMORE, A.RA.

1052 Harvest in the Highlands (after Landseer) .....*Joseph Dugdale, Esq.*

ROBERT BRANDARD

1053 Crossing the Brook (after Turner).....*Edwin Hilton, Esq.*

T. A. PRIOR

1054 Zurich (after Turner) .....*Henry Graves, Esq.*

J. T. WILLMORE, A.R.A.

1055 Mercury and Argus (after Turner) ..... *F. J. Simpson, Esq.*

JOHN PYE

1056 Ehrenbreitstein (after Turner) .....*Joseph Dugdale, Esq.*

WILLIAM MILLER

1057 The Grand Canal, Venice (after Turner) .....*Joseph Dugdale, Esq.*

ROBERT GRAVES, A.R.A.

1058 La Vierge au Rosaire (after Murillo) .....*H. G. Crews, Esq.*

W. R. SMITH

1059 Dido and Æneas on the Morning of the Chase (after Turner)
George W. Agnew, Esq.

J. T. WILLMORE, A.R.A.

1060 The Chief's Return from Deer Stalking (after Landseer)
Joseph Dugdale, Esq.

DAVID LUCAS

1061 The Cornfield (after Constable) .....*Charles S. Agnew, Esq.*
1062 Salisbury Cathedral (after Constable).....*Charles S. Agnew, Esq.*
1063 The Lock (after Constable) .....*Charles S. Agnew, Esq.*
1064 Dedham Vale (after Constable) .....*Thomas Frost, Esq.*

THOMAS LANDSEER, A.R.A.

1065 Highland Nurses (after Landseer)..... *John Lilly, Esq.*

J. COUSEN

1066 Mercury and Hersé (after Turner).....*George W. Agnew, Esq*

J. T. WILLMORE, A.R.A.

1067 The Old Téméraire being Towed to her Last Berth (after Turner) ..... *F. J. Simpson, Esq.*
1068 Oberwesel on the Rhine (after Turner) ..... *Edward Cross, Esq.*

ROBERT WALLIS

1069 Lake Nemi (after Turner) ..... *Edward Cross, Esq.*
1070 Lake Lucerne (after Turner)..... *Henry Graves, Esq.*

EDWARD GOODALL

1071 Cologne (after Turner) ..... *Joseph, Dugdale Esq.*
1072 Caligula's Bridge (after Turner)..... *George W Agnew, Esq.*

G. HOLLIS

1073 St. Mark's Place, Venice (after Turner).....*George W. Agnew, Esq.*

DAVID LUCAS

1074 The Corsairs' Island (after Harding).....*Thomas Frost, Esq.*

W. H. SIMMONS

1075 Rosalind and Celia (after Millais) .....*Thomas Hine, Esq.*

1076 Towing the Victory into Gibraltar (after Stanfield) *Joseph Dugdale, Esq.*

J. T. WILLMORE, A.R.A.

1077 Ancient Italy (after Turner)..... *F. J. Simpson, Esq.*

W. MILLER

1078 Modern Italy (after Turner) ..... *F. J. Simpson, Esq.*

W. J. DAVEY

1079 The Last Sleep of Argyle (after Ward)... ..... *Thomas Aitken, Esq*

THOMAS LANDSEER, A.R.A.

1080 Chevy (after Landseer) .... *S. Baerlein, Esq.*

R. W. MACBETH, A.R.A.

1081 The Harbour of Refuge (after Fred Walker)... *Joseph Ormerod, Esq.*

1082 Bacchus and Ariadne (after Titian) ..... *The Artist.*

1083 The Harvest Moon (after Mason) ..... *John Lawson, Esq.*

J. L. ATKINSON

1084 Stella (after Millais) .....*S. Titmas, Esq.*

1085 Vanessa (after Millais) ..... *S. Titmas, Esq.*

BELLIN

1086 David Cox (after Watson Gordon) ..... *Peter Allen, Esq.*

G. H. EVERY

1087 For the Squire (after Millais) ..... *J. J. Bolton, Esq.*

1088 A Little Duchess (after Millais) ..... *J. J. Bolton, Esq.*

H. HERKOMER, A.R.A.

1089 Grandfather's Pet ..... *C. J. Waddell, Esq.*

J. D. MILLER

1090 A Milkmaid (after Mason) ..... *O. E. Heys, Esq.*

R. W. MACBETH, A.R.A.

1091 The Fishmonger's Shop (after Fred. Walker) ..... *H. Massey, Esq.*

LUMB STOCKS, R.A.

1092 A Sister's Kiss (after Leighton) ..... *Joseph Ormerod, Esq.*

F. SEYMOUR HADEN.

1093 Calais Pier (after Turner) ..... *The Artist*

R. W. MACBETH, A.R.A.

1094 The Plough (after Fred. Walker) ..... *George W. Agnew, Esq.*
1095 Mushroom Gatherers (after Fred. Walker) ... *George W. Agnew, Esq.*
1096 Marlow Ferry (after Fred. Walker)..... .. *W. H. Doeg, Esq.*
1097 A Pastoral Symphony (after Mason) ..... *John Lawson, Esq*

W. J. DAVEY

1098 Execution of Montrose (after Ward) .. .. *Thomas Aitken, Esq.*

THOMAS LANDSEER, A.R.A.

1099 Ptarmigan Hill (after Landseer) .... *S Baerlein, Esq.*

DAVID LAW

1100 The Windmill (after Linnell) ..... *J. J. Bolton, Esq.*

WILFRID BALL

1101 Stratford-on-Avon Church (Original Etching.)..... *J. J. Bolton, Esq.*

C. W. CAMPBELL

1102 G. F. Watts, Esq., R.A. (after Watts—Mezzotint) ..... *The Artist*

JOSEPH KNIGHT

1103 Landscape—Cornfield (Mezzotint) ..... *The Artist*

GERALD ROBINSON

1104 Le Chapeau Noir (after Reynolds)..... *George W. Agnew, Esq.*

DAVID LAW

1105 Rydal Water (Original Etching) ..... *G. F. Williams, Esq.*

L. J. STEELE

1106 The Poacher (after Riviere)..... *Walter Adams Esq.*

DAVID LUCAS

1107 A Devonshire River (after Lee) ..... *Thomas Frost, Esq.*

ROBERT GRAVES, A.R.A.

1108 Mrs. Graham (after Gainsborough).....*Thomas Frost, Esq.*

THOMAS LANDSEER, A.R.A.

1109 Man Proposes, God Disposes (after Landseer) ... *J. E. Buckley, Esq.*

JOSEPH KNIGHT

1110 Mouth of the Conway (Original Mezzotint) ..... *The Artist*

DAVID LAW

1111 Rydal Mount (Original Etching) ..... *G. F. Williams, Esq.*

JOSEPH KNIGHT

1112 Clouded Heaven (Original Mezzotint)..... *The Artist*

DAVID LAW

1113 Windsor Castle (Original Etching) ..... *Henry Thornber, Esq.*

F. SLOCOMBE

1114 Stoke Pogis Church (Original Etching) ..... *G. H. Hill, Esq.*

DAVID LAW.

1115 Tintern Abbey (Original Etching)..... *Walter Frost, Esq.*

F. SLOCOMBE

1116 Little Stanmore Church (Original Etching) ... *R. Montgomery, Esq.*

CHARLES TURNER

1117 Age of Innocence (after Reynolds)..... ..... *Thos. Frost, Esq.*

W. FINDEN

1118 The Naughty Boy (after Landseer) ..... *James Ashcroft, Esq.*

J. H. ROBINSON

1119 Red Riding Hood (after Landseer) ..... *James Ashcroft, Esq.*

L. J. STEELE

1120 His Only Friend (after Riviere) ..... *George W. Agnew, Esq.*

J. J. CHANT.

1121 Remnant of an Army (after E. Butler)..... *M. B. Huish, Esq.*

G. H. EVERY

1122 Viola (after Leighton) ..... *H. G. Crews, Esq.*

DAVID LAW

1123 Hereford (Original Etching) .... *Walter Frost, Esq.*

SAMUEL COUSINS, R.A.

1124 The Dauphin (after Greuze) .... *H. Thornber, Esq.*

WILLIAM HOLL

1125 Merrymaking in the Olden Time (after Frith) *Joseph Dugdale, Esq.*

G. T. DOO, R.A.

1126 Mercy Interceding for the Vanquished (after Etty)... *Mrs. Agnew*

F. SLOCOMBE

1127 Farm in the New Forest (Original Etching)... *James Ashcroft, Esq.*

DAVID LAW

1128 Windermere (Original Etching)..... *G. F. Williams, Esq.*

1129 Grasmere (Original Etching) ..... *G. F. Williams, Esq.*

F. STACPOOLE, A.R.A.

1130 Envy, Hatred, and Malice (after Riviere)..... *Henry Kershaw, Esq.*

FRANCIS HOLL

1131 Coming of Age in the Olden Time (after Frith) *Joseph Dugdale, Esq.*

A. H. HAIG

[Original Etchings.]

1132 Mont St. Michel, Normandy ..... *H. G. Crews, Esq.*
1133 Cathedral of St. George, Limburg on the Lahn... *R. Dunthorne, Esq.*
1134 The Vesper Bell..... *H. G. Crews, Esq.*
1135 A Quiet Hour ..... *H. G. Crews, Esq.*
1136 Chartres Cathedral, North Porch..... *H. G. Crews, Esq.*
1137 Morning of the Festival ..... *H. G. Crews, Esq.*
1138 Chartres Cathedral ..... *H. G. Crews, Esq.*

WATER-COLOUR DRAWINGS.

C. DAVIDSON

1139 The First Shower of the Season ..... *The Artist*

COPLEY FIELDING

1140 Bridlington Pier ..... *W. H. Houldsworth, Esq., M.P.*

J. S. COTMAN

1141 Entrance to the Tagus..... *Peter Allen, Esq.*

W. W. DEANE

1142 Riva dei Schiavoni, Venice ..... *Mrs. Deane.*

S. PROUT

1143 Church of St. Pierre, Caen ..... *John Platt, Esq.*

P. F. POOLE, R.A.

1144 Maternal Embrace ..... *Abraham Haworth, Esq.*

G. SHEFFIELD

1145 Near Douglas, Isle of Man .... *The Artist*

J. D. HARDING

1146 Near the Lake of Thun..... *David Jardine, Esq.*

COPLEY FIELDING

1147 Glen Falloch, Argyleshire..... *Peter Allen, Esq.*

W. NESFIELD

1148 The Giant's Causeway..... ..... *Henry Pritt, Esq.*

JAMES HOLLAND

1149 Venice ..... *Rev. C. J. Sale*

F. W TOPHAM.

1150 Homewards .... *F. Craven, Esq.*

F. TAYLER, R.W.S.

1151 Highland Drovers ..... *J. Broughton Dugdale, Esq.*

DAVID COX.

1152 The Portrait Gallery, Hardwicke Hall ..... *Duke of Devonshire*

A. E. CHALON, R.A.

1153 Her Majesty's First Drawing Room..... *F. Bradley, Esq.*

DAVID COX.

1154 Taking the Left Road ..... *Peter Allen, Esq.*

S. PROUT

1155 Beauvais Cathedral ..... *C. F. H. Bolckow, Esq.*

COPLEY FIELDING

1156 Fairlight Downs, Looking towards Dungeness ... *Peter Allen, Esq.*

D. G. ROSSETTI

1157 Ricordati di me..... *Thos. Wardle, Esq.*

F. W. TOPHAM

1158 The Letter Writer ..... *R. M. Knowles, Esq.*

G. CATTERMOLE

1159 Service in the Baron's Chapel .... *J. Orrock, Esq.*

F. TAYLER, R.W.S.

1160 The Ferry..... *W. Gilbey, Esq.*

S. PROUT

1161 Hotel de Ville, St. Quentin, France ... *H. Tootal-Broadhurst, Esq.*

COPLEY FIELDING

1162 The White Cliffs of Albion ..... *E. Atkinson, Esq.*

DAVID COX

1163 The Rainbow..... *J. Gillott, Esq.*

1164 Meeting of the Llugwy and the Conway... *Rev. T. W. Jex-Blake, D. D.*

COPLEY FIELDING

1165 Bow Hill Downs ..... *Abel Buckley, Esq.*

E. LUNDGREN

1166 The Sultana ..... *W. Walton, Esq.*

1167 Commissioner Yeh..... *Trustees of the late E. Hermon*

LOUIS HAGHE

1168 The Sebreel, or Holy Well at Cairo ... *J. Broughton Dugdale, Esq.*

SAMUEL PALMER

1169 Calypso's Island .... *Jesse Haworth, Esq.*

W. W. DEANE

1170 Jedburgh ..... *Mrs. Deane*

COPLEY FIELDING

1171 Lancaster ..... *Abraham Haworth, Esq.*

F. W. TOPHAM

1172 Loitering ..... *F. Craven, Esq.*

T. DANBY

1173 Sir Calidore..... *Rev. C. J. Sale*

COPLEY FIELDING

1174 Rough Water ..... *G. W. Moss, Esq.*

DAVID COX

1175 The Retreat of Claverhouse ..... *F. Craven, Esq.*

S. PROUT

1176 Temple of the Sibyl..... *John Platt, Esq.*

SCREEN.

F. TAYLER, R.W.S.

1177 Woodland Hunting ..... *W. Gilbey, Esq.*

DAVID COX

1178 Sketch in Carnarvonshire..... *Peter Allen, Esq.*

S. J. HODSON

1179 Palace of the Doge (Venice) ..... *F. Green, Esq.*

T. S. COOPER, R.A.

1180 Mountain Sheep ..... *John Lomax, Esq.*

SIR J. D. LINTON, P.R.I.

1181 Alice Lee ..... *C. J. S. Lock, Esq.*

W. CALLOW

1182 Street Scene, Chester ..... *Rev. C. J. Sale*

S. J. HODSON

1183 Fruit Market, Nuremberg ..... *W. Jessop, Esq.*

W. EYRE WALKER

1184 Autumn in Sherwood Forest ..... *E. Harris, Esq.*

SIR J. D. LINTON, P.R.I.

1185 Gil Blas ..... *C. J S. Lock, Esq.*

T. S. COOPER, R.A.

1186 Winter..... *J. Thewlis Johnson, Esq.*

E. J. POYNTER, R.A.

1187 A Surrey Arcadia ..... *Charles Wills, Esq.*

T. S. COOPER, R.A.

1188 Summer ..... *J. Thewlis Johnson, Esq.*

G. A. FRIPP, R.W.S.

1189 Goring ..... *E. Atkinson, Esq.*

COPLEY FIELDING

1190 Highland Lake ..... *Jesse Haworth, Esq.*

F. TAYLER, R.W.S.

1191 Otter Hounds..... *W. Gilbey, Esq.*

E. BANCROFT

1192 A Sunny Day, Devonshire ..... *The Artist*

W. SIMPSON, R.I.

1193 BAHR-EL-KHEBEER; OR, THE GREAT SEA. ROCK-CUT CISTERN UNDER THE SITE OF SOLOMON'S TEMPLE... *W. Morrison, Esq., M.P.*

J. W. WHYMPER, R.I.

1194 RICHMOND CASTLE.....*Mrs. Dewhurst*

HARRY HINE, R.I.

1195 LINDFIELD, SUSSEX.....*P. H. Rathbone, Esq.*

G. A. FRIPP, R.W.S.

1196 OLD WINDMILL ON THE SUSSEX COAST.....*Sir Prescott Hewett, Bart.*

BIRKET FOSTER, R.W.S.

1197 BIRD-NESTING .....*H. P. Gilbey, Esq.*

J. MACWHIRTER, A.R.A.

1198 GENOA .....*John Pender, Esq.*

CUTHBERT RIGBY.

1199 AMONG THE CUMBERLAND FELLS.....*J. Clapham, Esq.*

A. GOODWIN, R.W.S.

1200 ABINGDON CHURCHYARD .....*Humphrey Roberts, Esq.*

F. TAYLER, R.W.S.

1201 THE SHEPHERDESS .....*F. Craven, Esq.*

W. HUNT

1202 BIRD'S NEST AND APPLE BLOSSOM .....*J. Gillott, Esq.*

E. LUNDGREN

1203 DANCING GIRLS, LUCKNOW .....*Trustees of the late E. Hermon, Esq.*
1204 GHOORKAS AND SIKHS..... *Ditto*
1205 THE KING OF OUDH ..... *Ditto*
1206 LORD CLYDE AND HIS STAFF..... *Ditto*
1207 NATIVE LADY OF RANK ..... *Ditto*
1208 GENERAL SIR JAMES OUTRAM ..... *Ditto*
1209 A NATIVE PRINCE .... *Ditto*
1210. LORD CLYDE ..... *Ditto*
1211 GROUP OF SIKH SOLDIERS ..... *Ditto*
1212 GENERAL SIR HENRY HAVELOCK ..... *Ditto*
1213 SIKH SOLDIER GUARDING TREASURE.. *Ditto*

F. SEYMOUR HADEN
(Original Etchings.)

1214 SIX STUDIES IN DRY POINT .....*The Artist*
1215 RIVER SCENE, WITH SHIPPING ..... *Ditto*
1216 FOREST SCENE ..... *Ditto*
1217 A RUIN, WITH TWO COWS ..... *Dttto*

F. SEYMOUR HADEN—*continued.*

1218 CATTLE IN WATER ..... *The Artist.*
1219 A LANCASHIRE RIVER ..... *Ditto*
1220 THE BREAKING UP OF THE OLD AGAMEMNON ..... *Ditto*

H. FURNISS

1221 A BACK SEAT, APRIL 1st, 1886 (pen and ink) ..... *The Artist*
1222 THE HOUSE IN UTOPIA, 1884 (pen and ink) ..... *Ditto*

T. S. COOPER, R.A.

1223 SHEEP..... *V. K. Armitage, Esq.*

A. P. NEWTON

1224 SHATTERED DESOLATION—RUINS OF THE PARTHENON, ATHENS
W. J. Carver, Esq.

A. WATERHOUSE, R.A.

1225 TAORMINA, SICILY ..... *The Artist*

SIR F. LEIGHTON, P.R.A.

1226 THE SEA GIVING UP ITS DEAD (original design for St. Paul's)... *The Artist*

W. HOLMAN HUNT

1227 PLAIN OF REPHAIM FROM ZION .....*Abraham Haworth, Esq.*
1228 NAZARETH .....*Abraham Haworth, Esq.*
1229 CAIRO: SUNSET FROM THE GEBEL MOKATTUM ... ...*Jesse Haworth, Esq.*

JOHN TENNIEL, R.I.

1230 ÆOLUS, RULER OF THE STORMS (Pencil Drawing for *Punch*, April 6, 1878) .....*The Artist*

H. FURNISS

1231 THE IRISH AT BOW STREET (pen and ink) .... *The Artist*

DAVID COX

1232 WINDSOR—CAVALRY EXERCISING .....*Abel Buckley, Esq.*

J. H. D'EGVILLE

1233 THE LAGUNES OF VENICE .....*Sir Prescott Hewett, Bart.*

E. G. THOMSON

1234 GLIMPSES INTO FAIRYLAND .....*The Artist*

W. MULREADY, R.A.

1235 CROSSING THE BROOK (Chalk Drawing) .....*Thomas Johnson, Esq.*

S. LAWRENCE

1236 THE LATE ANTHONY TROLLOPE, THE CELEBRATED NOVELIST (Crayon) .....*Mrs. Trollope*

W. MULREADY, R.A.

1237 THE LAST IN (Chalk) ..... *J. E. Taylor, Esq.*

R. CALDECOTT

1238 The Great Panjandrum Himself ..... *C. M. Royds, Esq.*

W. MULREADY, R.A.

1239 Choosing the Wedding Gown (Chalk) .... *Earl of Northbrook*

W. WILLIAMS

1240 The Late Lord Palmerston (Prime Minister, 1855-58 and 1859-65)..... *Lord Mount Temple*

S. PROUT

1241 Town Hall at Utrecht ..... *R. R. Ross, Esq.*

R. CALDECOTT

1242 "Come Lassies and Lads"..... .... *C. M. Royds, Esq.*

DAVID COX

1243 Darley Church (Moonlight) ..... *Rev. C. J. Sale*

SIR E. LANDSEER, R.A

1244 Stags Fighting (Chalk Drawing)..... *Lady Scott*
1245 The Wounded Hound ..... *Lady Scott*
1246 Well Packed..... ..... *Lady Scott*
1247 Waiting for the Load..... ..... *Sir F. Millbank, Bart.*
1248 Pointers .....*Sir F. Millbank, Bart.*

P. DE WINT

1249 Hay Harvest .... *Peter Allen, Esq.*

JOHN TENNIEL R.I.

1250 Our Isthmian Games (a Gladstonian Derby, 1872, *Punch*, vol. 64, chalk)..... ..... *J. C. Haslam, Esq.*
1251 Punch's Celebration of Queen Victoria's Jubilee (pen and ink) .... *The Artist*
1252 Where Are We Now? (pencil. Original Drawing for *Punch.*) *The Artist*

F. WALKER, A.R.A.

1253 The Vagrants (pen and ink).....*J. P. Heseltine, Esq.*

LINLEY SAMBOURNE

1254 Design for Punch (pen and ink. See Almanack, 1884) ...*The Artist*

H. FURNISS

1255 The Gainsborough Show at the Grosvenor Gallery (our own private view—pen and pencil) ..... *The Artist*
1256 Essence of Parliament (pen and ink) ..... *The Artist*

JOHN TENNIEL, R.I.

1257 A Jubilee Pageant (design for Punch, pen and ink) ..... *The Artist*
1258 At the Gates of the Temple of Janus (pen and ink. Original Drawing for *Punch*) ..... *The Artist*

LINLEY SAMBOURNE

1259 THE KNIGHT AND THE FLEA (an Unrecorded Trial of the Middle Ages. See Almanack, 1879) ..... *The Artist*

CHARLES KEENE

1260 DRAWING FOR "PUNCH" (pen and ink) ..... *The Artist*

1261 BOY FISHING ..... *The Artist*

LINLEY SAMBOURNE

1262 ART IN OLYMPUS, OR THE ACADEMIA OF THE GODS (pen and ink) ..... *The Artist*

H. FURNISS

1263 THE ORIGINAL DESIGN IN PEN AND INK, KINDLY EXECUTED BY THE ARTIST, FOR THE COVER OF THE CATALOGUE OF THE FINE ART SECTION ..... *Mrs. Agnew*

1264 A GOOD ADVERTISEMENT (Pen and Ink) ..... *The Artist*

LINLEY SAMBOURNE

1265 DESIGN FOR "PUNCH" (pen and ink) ..... *The Artist*

CHARLES KEENE

1266 DESIGN FOR PREFACE TO "PUNCH" ..... *The Artist*

GALLERY No. 12.—Water Colour Drawings.

J. FULLEYLOVE, R.I.

1267 Bushey Park ..... *The Artist*

A. W. HUNT, R.W.S.

1268 Bay of Naples ..... *Humphrey Roberts, Esq.*

A. GOODWIN, R.W.S.

1269 Canterbury..... *Humphrey Roberts, Esq.*

G. CROZIER

1270 Gleam Through the Mist..... *W. E. Houghton, Esq.*

T. M. RICHARDSON, R.W.S.

1271 Val di Noto, near Scordia, Sicily .....*R. P. Harding, Esq.*

C. GREEN, R.I.

1272 Bartholomew Fair .....*W. Carver, Esq.*

W. HOLMAN HUNT

1273 Jerusalem during Ramazan..... *Jesse Haworth, Esq.*

A. W. HUNT, R.W.S.

1274 Durham..... *Humphrey Roberts Esq.*

J. PARKER

1275 Little Nell and her Grandfather.....*Joseph Moseley, Esq.*

BASIL BRADLEY, R.W.S.

1276 Motherless ... . *G. Boulton, Esq.*

G. CLAUSEN

1277 Hedgers .....*B. J. Ward, Esq.*

F. POWELL, R.W.S.

1278 Loch Duich .....*F. Craven, Esq.*

J. ORROCK, R.I.

1279 Dandie Dinmont's Waste, near Bowcastle .....*W. S. Hobson, Esq.*

H. MOORE, A.R.A.

1280 Herring Boats, Loch Fyne.....*T. R. Wilkinson, Esq.*

KEELEY HALSWELLE, A.R.S.A.

1281 South Coast .....*Henry Whitehead, Esq.*

JOSEPH KNIGHT, R.I.

1282 The Last of the Light .....*R. Curtis, Esq.*

R. CALDECOTT

1283 The Rivals..... .....*W. Lockett Agnew, Esq.*

J. H. D'EGVILLE

1284 Near Venice ... ... *Sir Prescott Hewitt, Bart.*

G. A. FRIPP, R.W.S.

1285 Angera from the Heights above Arona ... *E. Atkinson, Esq.*

J. W. NORTH, R.W.S.

1286 Acorn Gatherers ... ... *E. Naylor, Esq.*

T. W. WILSON, R.I.

1287 Departure of the Coldstream Guards for the Soudan *The Artist*

F. MOSCHELLES

1288 The Pretty Toy of the East ... *The Artist*

CARL HAAG, R.W.S.

1289 The Roman Forum ... ... *G. W. Moss, Esq.*

1290 The Sphynx of Giza (A Caravan of Bedouins encamping against an approaching Sandstorm) ... *Lady Siemens*

SIR F. W. BURTON.

1291 Helen Faucit (In the play of "Antigone") ... *Miss Margaret Stokes*

H. HERKOMER, A.R.A.

1292 Portrait of John Ruskin, Esq., LL.D. ... *The Artist*

KEELEY HALSWELLE, A.R.S.A.

1293 On the Thames (A Summer's Day) ... *H. H. Bolton, Esq.*

BIRKET FOSTER, R.W.S.

1294 A Country Lane... ... *John Pender, Esq.*

T. M. RICHARDSON, R.W.S.

1295 Lake Como ... *Charles Langton, Esq.*

BIRKET FOSTER, R.W.S.

1296 Warksburn, Northumberland ... *Abraham Haworth, Esq.*

CARL HAAG, R.W.S.

1297 The Remains of the Temples of Baalbec ... *Mrs. Platt*

C. EARLE, R.I.

1298 Ferry on the Wensum ... *The Artist*

CLARA MONTALBA

1299 Riva degli Schiavoni, Venice... *The Artist*

E. BURNE JONES, A.R.A.

1300 The Annunciation ... *W. Coltart, Esq.*

1301 Green Summer ... *W. Coltart, Esq.*

1302 The Hesperides ... *F. Craven, Esq.*

1303 Love Amongst the Ruins ... *F. Craven, Esq.*

BRITON RIVIERE, R.A.

1304 Daniel in the Lions' Den ... *Ed. Cross, Esq.*

F. MADOX BROWN

1305 The Dream of Sardanapalus.....*F. Craven, Esq.*

MARK FISHER, R.I.

1306 Cows near the Farmstead .....*Henry Whitehead, Esq.*

R. ANDERSON, A.R.S.A.

1307 Hauling the Line .....*James Ashcroft, Esq.*

P. H. CALDERON, R.A.

1308 Juliet Waiting for the Nurse .....*Edward Broadhurst, Esq.*

W. DUNCAN

1309 Love, Scandal, and Politics .....*R. S. Wyndham*

BIRKET FOSTER, R.W.S.

1310 Flower Market at Toulon .....*H. P. Gilbey, Esq.*

J. D. WATSON, R.W.S.

1311 A Wee Drop too Much.....*Joseph Moseley, Esq.*

A. H. MARSH

1312 Blow! Blow! Thou Wintry Wind ..... *J. Galloway, jun., Esq.*

H. S. MARKS, R.A.

1313 Thoughts of Christmas .....*Andrew Knowles, jun., Esq.*

A. D. FRIPP, R.W.S.

1314 The Fisherman's Home .....*G. Philip, Esq*

T. M. RICHARDSON, R.W.S.

1315 Rumbling Bridge, Perthshire .....*John Lomax, Esq*

C. GREEN, R.I.

1316 A Country Circus .....*W. Carver, Esq.*

A. W. HUNT, R.W.S.

1317 Schloss Eltz, Germany.....*G. W. Moss, Esq.*

SIR F. W. BURTON

1318 Peasants of Upper Franconia Waiting for Confession
Edward Schunck, Esq., F.R.S.

CLARA MONTALBA.

1319 A Sirocco Day, Venice. ..... *The Artist*

T. COLLIER, R.I.

1320 A Summer Sea ..... *Mrs. Burton*

G. A. FRIPP, R.W.S.

1321 Glen Rosa, Arran.. ..... *E. Harvey, Esq.*

F. MADOX BROWN

1322 The Entombment .....*H. Boddington, Esq*

SIR J. D. LINTON, P.R.I.

1323 The Admonition.....*J. Galloway, jun., Esq.*

1324 Off Guard.....*C. J. Galloway, Esq.*

C. POTTER

1325 The Street of Tombs, Pompeii.....*R. Collinge, Esq.*

T. COLLIER, R.I.

1326 The New Forest from Lymington.....*J. Orrock, Esq.*

SIR J. D. LINTON, P.R.I.

1327 The Cardinal Minister.....*J. Galloway, jun., Esq.*

W. J. SLATER

1328 A Pathway near Arundel.....*The Artist*

C. GREEN, R.I.

1329 Oranges, Apples, Bills of the Play.....*J. Galloway, jun., Esq.*

H. G. HINE, R.I.

1330 The Downs at Lewes.....*J. Orrock, Esq.*

WYKE BAYLISS

1331 Interior of Westminster Abbey..... *The Corporation of Nottingham*

J. AUMONIER, R.I.

1332 South Hastings.....*The Artist*

E. J. GREGORY, A.R.A.

1333 Last Touches.....*C. J. Galloway, Esq.*

A. WATERHOUSE, R.A.

1334 Cathedral of Chartres.....*The Artist*

C. WERNER

1335 Temple of Philœ.....*G. W. Moss, Esq.*

A. D. FRIPP, R.W.S.

1336 The Stair Hall.....*G. Philip, Esq.*

W. WYLD

1337 Venice.....*Mrs. Platt*

G. A. FRIPP, R.W.S.

1338 Nant Francon, North Wales.....*G. W. Moss, Esq.*

A. C. GOW, A.R.A.

1339 Coaching in the Olden Times.....*R. L. Chance, Esq.*

A. D. FRIPP, R.W.S.

1340 The Barley Field.....*G. Philip, Esq.*

F. TAYLER, R.W.S.

1341 Returning from the Hunt.....*W. Gilbey*

R. ANDERSON, A.R.S.A.

1342 Waiting for a Nibble.....*J. A. Beith, Esq.*

T. M. RICHARDSON, R.W.S.

1343 The Hospice, Pass of the Simplon..... *R. P. Harding, Esq.*

SIR J. D. LINTON, P.R.I.

1344 Priscilla..... *J. Orrock, Esq.*

GEORGE DU MAURIER

1345 Time's Revenge..... *The Artist*

T. S. COOPER, R.A.

1346 Summer ..... *E. Atkinson, Esq.*

E. BURNE JONES, A.R.A.

1347 Cupid and Psyche ..... *W. R. Moss, Esq.*

F. MADOX BROWN

1348 Elijah and The Widow's Son..... *F. Craven, Esq.*

J. ORROCK, R.I.

1349 Naworth Castle, Cumberland ..... *W. W. Lewis, Esq.*

R. THORNEWAITE, R.W.S.

1350 The Half-way House..... *J. Edward Reiss, Esq.*

SIR J. GILBERT, R.A.

1351 Falstaff..... *Henry Whitehead, Esq.*

SIMEON SOLOMON

1352 A Lady in a Chinese Dress..... *W. Coltart, Esq.*

J. R. HERBERT, R.A.

1353 The Two Foscari ..... *H. Tootal-Broadhurst, Esq.*

T. M. RICHARDSON

1354 Portree, Isle of Skye..... *Abraham Haworth, Esq.*

E. J. GREGORY, A.R.A.

1355 The Standard Bearer..... *C. J. Galloway, Esq.*

A. D. FRIPP, R.W.S.

1356 A Carmelite Monk ..... *Mrs. Hugh Mason*

A. W. HUNT, R.W.S.

1357 The Rainbow .... *W. S. Caine, Esq., M P.*

F. POWELL, R.W.S.

1358 Loch Scavaig, Isle of Skye ..... *F. Craven, Esq.*

F. TAYLER, R.W.S.

1359 The Gamekeeper's Daughter ..... *W. Gilbey, Esq.*

T. M. RICHARDSON, R.W.S.

1360 The Via Mala, Grisons, Switzerland..... *F. D. Brocklehurst, Esq.*

R. THORNEWAITE, R.W.S.

1361 Oatfield, Hampshire ..... *The Artist*

F. TAYLER, R.W.S.

1362 Bringing Down the Kye ..... *N. Eckersley, Esq.*
1363 Weighing the Deer.....*G. W. Moss, Esq.*
1364 Hawking.....*F. Craven, Esq.*

GUIDO R. BACH, R.I.

1365 Alms Day at the Ara Cœli, Rome.....*Captain Meeking*

H. CLARENCE WHAITE, R.W.S.

1366 The Legendary Castle of Arran .....*The Artist*
1367 Snow in Harvest.....*C. J. Pooley, Esq.*

W. LANGLEY, R.I.

1368 Waiting for the Boats .....*W. H. Michael, Esq., Q.C.*

F. J. SHIELDS

1369 Sisterly Help.....*C. J. Pooley, Esq.*

C. B. PHILLIP

1370 Ben Cruachan, Argyleshire..... *G. M. Burnett, Esq.*

J. R. HERBERT, R.A.

1371 Doge Dandelo..... *H. Tootal-Broadhurst, Esq.*

SIMEON SOLOMON

1372 The Sleepers and the One that Waketh ..... *F. Craven, Esq.*

F. DICKSEE, A.R.A.

1373 Constance and Salisbury .....*W. S. Hastings, Esq.*
1374 Othello and Desdemona ..... *W. S. Hastings, Esq.*

SIR J. GILBERT, R.A.

1375 Scene from Catherine and Petruchio.....*R. Peacock, Esq., M.P.*

E. A. GOODALL, R.W.S.

1376 A Street in Cairo, near the Coppersmiths' Bazaar. *Mrs. Hugh Mason.*

A. W. HUNT, R.W.S.

1377 Tynemouth Pier ....*Humphrey Roberts, Esq.*

S. J. HODSON, R.W.S.

1378 A Boy's Dream .....*John Lomax, Esq.*

J. D. WATSON, R.W.S.

1379 An Ambuscade ..... *Henry Whitehead, Esq.*

F. J. SHIELDS

1380 OVERTAKEN BY THE TIDE ..... *W. Brockbank, Esq.*

E. J. GREGORY, A.R.A.

1381 ST. GEORGE ..... *C. J. Galloway, Esq.*

G. A. FRIPP, R.W.S.

1382 VIEW FROM KING'S HOUSE LOOKING TOWARDS GLENCOE ..... *Mrs. Potter*

HARRY HINE, R.I.

1383 ELY CATHEDRAL ..... *Walter Harding, Esq.*

W. DUNCAN

1384 LE JARDIN D'AMOUR ..... *T. Phelps, Esq.*

C. J. STANILAND, R.I.

1385 PRISCILLA ..... *J. Macandrew, Esq.*

H. M. MARSHALL, R.W.S.

1386 VIEW ON THE THAMES ..... *Sir Richard Webster, Q.C., M.P.*

J. ORROCK, R.I.

1387 BIRD OSWALD VALLEY WITH RIVER IRTHING ..... *W. W. Lewis, Esq.*

C. GREEN, R.I.

1388 SOMETHING WRONG SOMEWHERE ..... *J. Orrock, Esq.*

G. D. LESLIE, R.A.

1389 THE GRANDMOTHER ..... *W. H. Houldsworth, Esq., M.P.*

C. WERNER

1390 A CHURCH IN FLORENCE ..... *G. W. Moss, Esq.*

E. HAYES, R.H.A.

1391 NORTH SEA TRAWLERS ..... *T. H. Purvis, Esq.*

J. H. COLE

1392 SOLITUDE ..... *G. Mayes, Esq.*

F. GOODALL, R.A.

1393 THE PALM OFFERING ..... *Holbrook Gaskell, Esq.*

E. F. BREWTNALL, R.W.S.

1394 VISIT TO THE WITCH ..... *J. Galloway, Jun., Esq.*

R. REDFERN

1395 SUMMER ..... *W. Redfern, Esq.*

J. PARKER, R.W.S.

1396 DAME DURDEN ..... *The Artist*

T. COLLIER, R.I.

1397 ARUNDEL PARK ..... *Mrs. Burton*

W. ARTINGSTALL

1398 THE SPHYNX ..... *The Artist*

H. CLARENCE WHAITE, R.W.S.

1399 THE CASTLE ROCK, CUMBERLAND ..... *Corporation of Liverpool*

SIR J. GILBERT, R.A.

1400 FALSTAFF ..... *G. W. Moss, Esq.*

W. D. BARKER

1401 A FLOOD ..... *The Artist*

SIR J. GILBERT, R.A.

1402 RICHARD II. RESIGNING THE CROWN ..... *W. Carver, Esq.*

1403 JOAN OF ARC'S ENTRY INTO ORLEANS ..... *Humphrey Roberts, Esq.*

R. ANDERSON, A.R.S.A.

1404 HERRING FISHING OFF THE FORFARSHIRE COAST ..... *W. R. Moss, Esq.*

A. D. FRIPP, R.W.S.

1405 POMPEII ..... *G. Philip, Esq.*

SIR J. GILBERT, R.A.

1406 BATTLE OF MARSTON MOOR ..... *Humphrey Roberts, Esq.*

W. MORTON

1407 MYERSCOUGH-LE-FYLDE (with the Bleasdale Hills) ..... *W. Rose, Esq.*

BASIL BRADLEY, R.W.S.

1408 LOST ..... *E. J. Longton, Esq., M.D.*

W. EYRE WALKER

1409 THE EDGE OF THE COMBE ..... *Miss Alice Cooper*

F. J. SHIELDS

1410 SOLOMON EAGLE ..... *C. J. Pooley, Esq.*

H. MEASHAM

1411 A WELSH FARMSTEAD ..... *Edward Evans, Esq.*

CARL HAAG, R.W.S.

1412 TEMPLE OF FORTUNA ..... *James Jardine, Esq*

BRITON RIVIERE, R.A.

1413 ORPHEUS PLAYING TO THE BRUTES ..... *Humphrey Roberts, Esq*

JOSEPH KNIGHT, R.I.

1414 THE SHORE NEAR HARLECH ..... *G. Bullock, Esq.*

F. TAYLER, R.W.S

1415 GOING TO THE CHASE ..... *W. Gilbey, Esq.*

BIRKET FOSTER, R.W.S.

1416 AN OLD MILL ..... *J. W. Haigh, Esq.*

SCREEN.

G. A. FRIPP, R.W.S.

1417 ABERDEENSHIRE DEE ..... *G. W. Moss, Esq.*

F. GOODALL, R.A.

1418 HAGAR AND ISHMAEL ..... *Abraham Haworth, Esq.*

G. A. FRIPP, R.W.S.

1419 The Coupée, Sark ..... *Mrs. Potter*

MARGARET GILLIES

1420 The Pilgrimage ..... *W. B. Marshall, Esq.*

HELEN ALLINGHAM

1421 The Pensioner's Garden ..... *Charles Churchill, Esq.*

E. BURNE JONES, A.R.A.

1422 Pyramus and Thisbe ..... *Mrs. W. A. Turner*

SIR J. E. MILLAIS, BART., R.A.

1423 The Black Brunswicker ..... *Jesse Haworth, Esq.*

E. BALE, R.I.

1424 The Convent Garden ..... *Dr. Orrock*

J. D. WATSON, R.W.S.

1425 Taking Home the Maypole..... *Henry Whitehead, Esq.*

G. A. FRIPP, R.W.S.

1426 Sonning Wood ..... *Sir Richard Webster, Q.C., M.P.*

H. S. MARKS, R.A.

1427 Orpheus Charming the Beasts ..... *Edward Broadhurst, Esq.*

J. W. WHYMPER, R.I.

1428 Coast Scene, Early Morning ..... *C. Combe, Esq.*

A. C. GOW, A.R.A.

1429 The Alchymist ..... *H. F. Makins, Esq.*

SIR F. W. BURTON.

1430 Shireen ..... *Abraham Haworth, Esq.*

J. A. CROZIER

1431 Feeding Turkeys ..... *W. H. Houghton, Esq.*

SIR J. E. MILLAIS, BART., R.A.

1432 The Minuet..... *Abraham Haworth, Esq.*

H. H. HADFIELD

1433 A Bit of Old Scarborough..... *The Artist*

F. POWELL, R.W.S.

1434 Nearing Port ..... *W. Lockett Agnew, Esq.*

BIRKET FOSTER, R.W.S.

1435 Florence—Cologne—Venice ..... *H. P. Gilbey, Esq.*

H. PILLEAU, R.I.

1436 Giardini Publici, Venice ..... *The Honourable Sir Ford North*

H. G. HINE, R.I.

1437 South Downs ..... *J. Orrock, Esq.*

H. S. MARKS, R.A.

1438 A Happy Family at the Zoo.....*John Lomax, Esq.*

F. J. SHIELDS

1439 The Bread Watcher.....*Mrs. Botsford*

SIR J. D. LINTON, P.R.I.

1440 The Trumpeter .....*C. J. S. Lock, Esq.*

JAMES HARDY, R.I.

1441 Dead Game.....*E. J. Longton, Esq., M.D.*

A. GOODWIN, R.W.S.

1442 The Sole Survivor.....*Humphrey Roberts, Esq.*

F. TAYLER, R.W.S.

1443 Highland Cattle.....*W. Lockett Agnew, Esq.*

J. D. WATSON, R.W.S.

1444 Calves.....*Dr. Lloyd Roberts*

W. PILSBURY

1445 Long Grass and Wild Flowers .....*E. Harris, Esq.*

HELEN ALLINGHAM

1446 Nestlers.....*H. G. Crews, Esq.*

J. D. WATSON, R.W.S.

1447 The Rendezvous .....*Dr. Lloyd Roberts*

BRITON RIVIERE, R.A.

1448 Comala .....*F. W. Grafton, Esq.*

"There Comala sits forlorn! two grey dogs near
Shake their rough ears, and catch the flying breeze.
Her red cheek rests upon her arm;
The mountain wind is in her hair;
She turns her blue eyes towards the field of his promise:
Where art thou, O Fingal? The night is gathering around."

Ossian (translated).

R. B. WALLACE

1449 Mariana.....*C. Rowley, Esq.*

G. DU MAURIER

1450 La Bangiolinata .....*The Artist*

CARL HAAG, R.W.S.

1451 Scene in the Tyrol .....*E. Harvey, Esq.*

JAMES T. LINNELL

1452 A May Morning .....*Abraham Haworth, Esq.*

F. MADOX BROWN

1453 Romeo and Juliet.....*F. Craven, Esq.*

BIRKET FOSTER, R.W.S.

1454 Children on the Sea Shore .....*Jesse Haworth, Esq.*

1455 Cottage in Surrey.....*Mr. Alderman King*

JAMES HARDY, R.I.

1456 DEAD GROUSE ..... *E. J. Longton, Esq., M.D.*

SIR J. D. LINTON, P.R.I.

1457 THE MANDOLIN ..... *J. Orrock, Esq.*

A. GOODWIN, R.W.S.

1458 BURNING THE TARES ..... *Humphrey Roberts, Esq.*

FRANK DADD, R.I.

1459 TALLY HO! ..... *Mrs. Wood*

CUTHBERT RIGBY

1460 VALLEY OF DUDDON ..... *J. W. Oddie, Esq.*

F. J. SHIELDS

1461 IT'S NOT BEDTIME YET ..... *R. R. Ross, Esq.*

BIRKET FOSTER, R.W.S.

1462 THE UNRULY DONKEY ..... *R. P. Harding, Esq.*

JOHN TENNIEL, R.I.

1463 DON QUIXOTE PREPARING HIS ARMOUR ..... *C. J. Galloway, Esq.*

SIR J. E. MILLAIS, BART., R.A.

1464 THE ORDER OF RELEASE
1465 PROSCRIBED ROYALIST ..... *Charles Langton, Esq.*
1466 THE HUGUENOT

1467 MY FIRST SERMON ..... *Charles Langton, Esq.*

SIR J. D. LINTON, P.R.I.

1468 THE REVERIE ..... *J. Orrock, Esq.*

CARL HAAG, R.W.S.

1469 AMPHITHEATRE AT ATHENS ..... *G. W. Moss, Esq.*

HELEN ALLINGHAM

1470 THE PICTURE BOOK ..... *James Worthington, Esq.*

F. GOODALL, R.A.

1471 HUNT THE SLIPPER ..... *Charles Langton, Esq.*

P. J. NAFTEL, R.W.S.

1472 PŒSTUM ..... *Rev. C. J. Sale*

SIR E. J. MILLAIS, BART., R.A.

1473 MY SECOND SERMON ..... *Charles Langton, Esq.*

SIR J. D. LINTON, P.R.I.

1474 OFF GUARD ..... *J. Orrock, Esq.*

L. ALMA TADEMA, R.A.

1475 LA LECTURE ..... *James Barrow, Esq.*

BIRKET FOSTER, R.W.S.

1476 A Bit of the Thames ..... *R. P. Harding, Esq.*

L. ALMA TADEMA, R.A.

1477 Sponges and Strygels ..... *J. W. Knight, Esq.*

F. DICKSEE, A.R.A.

1478 Antony and Cleopatra ..... *J. Edward Reiss, Esq.*

SIR J. GILBERT, R.A.

1479 Don Quixote and Sancho Panza ..... *Edward Broadhurst, Esq.*

BIRKET FOSTER, R.W.S.

1480 Minding Baby ..... *H. P. Gilbey, Esq.*

SIR J. D. LINTON, P.R.I.

1481 Wallflowers ..... *J. Orrock, Esq.*

CONSTANCE PHILLOTT

1482 Electra ..... *G. Philip, Esq.*

A. GOW, A.R.A.

1483 Sheltering ..... *Humphrey Roberts, Esq.*

SIMEON SOLOMON

1484 * * * ..... *F. Craven, Esq.*

"It is the voice of my beloved that knocketh, saying, 'Open to me, my sister, my love, my dove, my undefiled; for my head is fitted with dew, and my locks with the drops of the night.'"

E. J. GREGORY, A.R.A.

1485 A Look at the Model ..... *C. J. Galloway, Esq.*

H. R. STEER, R.I.

1486 The Unsuccessful Candidate ..... *F. A. Swettenham, Esq.*

HELEN ALLINGHAM

1487 Thomas Carlyle ..... *W. Allingham, Esq.*

(Born Dec. 4, 1795; died Feb. 5, 1881.)

"A great soul, passionate for good,
A mighty brain, a tender heart,
With flaws of temper, glooms of mood:
Judge him according as thou art."

A. GOODWIN, R.W.S.

1488 Fisherman's Chapel ..... *Humphrey Roberts, Esq.*

HELEN ALLINGHAM

1489 Lessons ..... *G. Johnson, Esq., M.D.*

J. D. WATSON, R.W.S.

1490 The Violin Player ..... *H. Boddington, Esq.*

G. P. BOYCE, R.W.S.

1491 Valley of the Wotton, Surrey ..... *W. Coltart, Esq.*

GALLERY 13.—Water Colour Drawings.

E. DUNCAN

1492 CARTING ICE ..... *W. Thomson, Esq.*

COPLEY FIELDING

1493 THE DOWNS, NEAR EASTBOURNE ..... *Rev. C. J. Sale.*

E. DUNCAN

1494 WRECK ON THE GOODWIN SANDS ..... *G. W. Moss, Esq.*

SARAH SETCHELL

1495 "YE SHALL WALK IN SILK ATTIRE" ..... *Henry Vaughan, Esq.*

F. W. TOPHAM

1496 GIPSY TOILET ..... *John Thompson, Esq.*

D. G. ROSSETTI

1497 WASHING HANDS ..... *F. Craven, Esq.*

T. DANBY

1498 A FISHERMAN'S HOME ..... *W. Walton, Esq.*

COPLEY FIELDING

1499 RABY CASTLE, DURHAM ..... *C. E. Lees, Esq.*

E. DUNCAN

1500 FRENCH BOATS IN A SQUALL ..... *Joseph Dugdale, Esq.*
1501 FERRYING SHEEP ACROSS THE MEDWAY ..... *H. G. Crews, Esq.*

G. CHAMBERS

1502 SIGNALLING THE PILOT ..... *W. Walton, Esq.*

G. J. PINWELL

1503 THE BEGGAR'S ROOST, TANGIER ..... *Rev. C. J. Sale*
1504 GILBERT À BECKET'S TROTH ..... *John Jaffray, Esq.*

(*The Saracen Maiden entering London at Sundown.*) "Among the yeomen of Saxon race whose necessities compelled them to seek the service of the Norman Barons as esquires or attendants was a man whose romantic history, no less than the extraordinary career of his son, caused his name to become famous to a degree which rarely happened in those days to one of obscure birth. Gilbert à Becket was born in London in the reign of Henry I. At the beginning of the twelfth century, Gilbert à Becket followed his lord to the Holy Land. After having taken part in the ordinary dangers and sufferings of the soldiers of the Cross, Gilbert was made prisoner and reduced to slavery. In this condition the Saxon Yeoman attracted the notice of the daughter of a Saracen chief, and gained her love. With her assistance he succeeded in effecting his escape, and returned to England. The Paynim damsel could not live without him, and she determined to find her way to the distant country whither he had told her he was going. She knew only two words of English, which were London, and Gilbert. With the help of the former she obtained a passage in a ship which carried returning pilgrims and traders; and by means of the latter—wandering through the country, and repeating 'Gilbert! Gilbert!'—she at last found the man she loved. Gilbert à Becket appears to have received her tenderly and honourably, and, having asked the advice of the clergy, he caused her to be baptised, and having changed her name to that of Matilda, he married her. The strange circumstances of this marriage caused it to become famous throughout the country, and it was made the subject of various popular ballads and romances, two of which are still extant."

J. B. PYNE

1505 Florence ..... *Mrs. Platt*

W. W. DEANE

1506 The Bull Ring at Seville ..... *E. Oesterley, Esq.*

SARAH SETCHELL

1507 The Momentous Question ..... *Henry Vaughan, Esq.*

DAVID COX

1508 Landscape ..... *J. Broughton Dugdale, Esq.*

1509 Bolsover Castle ..... *F. Craven, Esq.*

W. DYCE, R.A.

1510 Glen Rosa, Isle of Arran ..... *J. Broughton Dugdale, Esq.*

T. DANBY

1511 Passing of Arthur ..... *Walter Field, Esq.*

P. DE WINT

1512 Dunster Castle ..... *James Worrall, Sen., Esq.*

1513 High Torr, Derbyshire ..... *R. Leake, Esq., M.P.*

P. F. POOLE, R.A.

1514 Maternal Affection ..... *Thomas Johnson, Esq.*

F. W. TOPHAM

1515 Barnaby Rudge ..... *Mrs. Mollett.*

S. PROUT

1516 Bruges ..... *James Jardine, Esq.*

P. DE WINT

1517 Lancaster ..... *Rev. T. W. Jex Blake, D.D.*

1518 Morecambe Bay ..... *J. Orrock, Esq.*

E. LUNDGREN

1519 The Dominican Friar ..... *Edward Broadhurst, Esq.*

P. DE WINT

1520 Timber Wagon ..... *R. Leake, Esq., M.P.*

P. F. POOLE, R.A.

1521 Mountain Spring ..... *Abel Buckley, Esq.*

C. STANFIELD, R.A.

1522 Portsmouth ..... *C. F. H. Bolckow, Esq.*

P. DE WINT

1523 The Farmyard ..... *J. M. Hetherington, Esq.*

SAM BOUGH, R.S.A.

1524 Crossing the Common ..... *Joseph Broome, Esq.*

F. W. TOPHAM

1525 Gate of the Alhambra ..... *James Jardine, Esq.*

G. DODGSON

1526 Carol Singers ..... *J. Orrock, Esq*

J. F. LEWIS, R.A.

1527 CHAMOIX ..... *Charles A Langton, Esq.*

S. PROUT

1528 FISH MARKET, ROME ..... *Dr. Lloyd Roberts.*

G. CATTERMOLE

1529 THE CHALLENGE ..... *Peter Allen, Esq.*

SARAH SETCHELL

1530 COLIN AND JESSIE ..... *T. R. Withers, Esq.*

C. BENTLEY

1531 WICKLOW BAY ..... *C. E. Lees, Esq.*

G. CATTERMOLE

1532 BRIGANDS DISTURBED ..... *F. Craven, Esq.*

1533 POWER OF MUSIC ..... *J. Thewlis Johnson, Esq.*

E. DUNCAN

1534 ON THE GOODWIN SANDS ..... *Jesse Haworth, Esq.*

G. CATTERMOLE

1535 HALT OF CAVALIERS ..... *Dr. Lloyd Roberts*

S. PROUT

1536 DRESDEN ..... *Mrs. Botsford.*

G. CATTERMOLE

1537 CHRIST PREACHING ..... *Abraham Haworth, Esq.*

1538 THE BANDITS ..... *H. Tootal-Broadhurst, Esq.*

P. DE WINT

1539 HAYFIELD ..... *Peter Allen, Esq.*

DAVID COX

1540 ROUGH SEA AFTER A STORM ..... *H. Tootal-Broadhurst, Esq.*

P. DE WINT

1541 HARVEST FIELD ..... *Abraham Haworth, Esq.*

G. CATTERMOLE

1542 RAISING OF LAZARUS ..... *C. F. H. Bolckow, Esq.*

T. S. ROBINS

1543 SEA PIECE ..... *Mrs. Dewhurst*

COPLEY FIELDING

1544 COAST SCENE ..... *James Jardine, Esq.*

S. PROUT

1545 ST. PIERRE, CAEN ..... *F. Craven, Esq.*

G. BARRET

1546 CLASSICAL LANDSCAPE ..... *Abraham Haworth, Esq.*

J. H. MOLE

1547 A LEISURE HOUR ..... *G. Philip, Esq.*

S. PROUT

1548 VENICE ..... *James Jardine, Esq.*

JOHN SELL COTMAN

1549 Bishop's Tower, Norwich ..... *W. G. Rawlinson, Esq.*

DAVID ROBERTS, R.A.

1550 Jaffa (Ancient Joppa) ..... *Mrs. Platt.*

H. BRITTAN WILLIS

1551 Near Guildford ..... *H. G. Crews, Esq.*

S. PROUT

1552 Ulm ..... *Mrs. Platt.*

E. M. WARD, R.A.

1553 Last Sleep of Argyle ..... *J. E. Taylor, Esq.*

F. LEE BRIDELL

1554 On Lake Como ..... *Mrs. Bridell Fox*

1555 Varenna ..... *Mrs. Bridell Fox*

DAVID COX

1556 Penmaenmawr ..... *Sir Joseph Heron*

SIR A. W. CALLCOTT, R.A.

1557 Baalbec ..... *Mrs. Hugh Mason.*

DAVID ROBERTS, R.A.

1558 Convent of St. Catherine, Mount Sinai ..... *Mrs. Platt*

J. B. PYNE

1559 Castle of Ischia ..... *Jesse Haworth, Esq.*

G. BARRET

1560 The Thames from Richmond ..... *H. Tootal-Broadhurst, Esq.*

1561 Sunset Study ..... *John Platt, Esq.*

1562 Walton Bridge, on the Thames ..... *Sir Joseph Heron.*

1563 Evening ..... *J. Orrock, Esq.*

1564 Walton Bridge, on the Thames ..... *David Jardine, Esq.*

1565 Arcadia ..... *Thomas Barnes, Esq.*

1566 Classical Composition ..... *J. Gillott, Esq.*

1567 Landscape with Cattle ..... *Mrs. Botsford.*

1568 Moonlight ..... *R. R. Ross, Esq.*

1569 Morning ..... *J. Orrock, Esq.*

1570 Landscape with Cattle ..... *J. Orrock, Esq.*

E. DUNCAN

1571 Storm at Sea ..... *Rev. C. J. Sale*

W. W. DEANE

1572 The Rialto ..... *G. H. Aitchison, Esq., A.R.A.*

D. G. ROSETTI

1573 The Brunette.....*Hon. C. W. Mills*

1574 Francesca da Rimini.....*W. R. Moss, Esq.*

Francesca, daughter of Guido da Polenta, lord of Ravenna, was married to Lanciotto, son of Malatestata da Rimini. She, however, fell in love with her husband's brother Paola, and the lovers being discovered by Lanciotto, he put them both to death.—*Dante's Inferno*, Canto. V.

JAMES HOLLAND

1575 Innspruck .....*J. Orrock, Esq.*

W. W. DEANE

1576 Chamber of the Council of Ten, Venice..... *Mrs. Deane*

JAMES HOLLAND

1577 Cadiz .....*Mrs. Botsford*

1578 The Jesuit Church of S. Maria del Rosario.....*Mrs. Perrins*

1579 The Dogana, Venice.....*F. Craven, Esq*

J. F. LEWIS, R.A.

1580 Newhaven Fishwomen.....*R. R. Ross, Esq.*

JAMES HOLLAND

1581 Life in Venice .....*Mrs. Botsford*

1582 Lion of St. Mark Venice .....*F. Craven, Esq.*

W. NESFIELD

1583 Fingal's Cave, Staffa .....*Henry Pritt, Esq.*

J. F. LEWIS, R.A.

1584 Seville .....*Peter Allen, Esq.*

1585 A Reception in the Harem.....*Abel Buckley, Esq.*

1586 Encampment in the Desert .....*G. W. Moss, Esq.*

1587 A Street in Cairo .....*Edward Broadhurst, Esq.*

1588 Camels in the Desert .....*Charles Langton, Esq.*

JOHN LINNELL

1589 Pastoral Landscape.....*William Agnew, Esq.*

1590 Eel Pie House, Twickenham.....*William Agnew, Esq.*

H. J. JOHNSON

1591 Stone Cross on Dartmoor .....*J. Macandrew, Esq.*

W. DYCE, R.A.

1592 Pegwell Bay.....*John Ponder, Esq*

W. COLLINS, R.A.

1593 Coast Scene ..... *David Jardine, Esq.*

T. DANBY

1594 River Llugwy..... *Walter Field, Esq.*

1595 Ben Burne, Perthshire..... *L. Blumfield, Esq.*

T. UWINS, Esq.

1596 Fiametta... .....*G. F. Hinshelwood, Esq.*

J. B. PYNE

1597 HEAD OF LAGO MAGGIORE..... .....*Mrs. Platt.*

F. W. TOPHAM

1598 BALLINASLOE FAIR..... .....*J. Milne Cheetham, Esq.*

T. DANBY

1599 A SUMMER MORNING .....*J. Warren, Esq.*

P. DE WINT

1600 LANDSCAPE AND CATTLE .....*H. Tootal-Broadhurst, Esq.*

COPLEY FIELDING

1601 LOCH LOMOND ....*G. W. Moss, Esq.*

1602 OFF THE EAST COAST.....*Peter Allen, Esq.*

G. BARRET

1603 SUNSET .....*J. Orrock, Esq.*

S. PROUT

1604 BRIDGE OF SIGHS, VENICE .....*Dr. Lloyd Roberts.*

P. DE WINT

1605 CORNFIELD.....*H. Tootal-Broadhurst, Esq.*

1606 THE GLEBE FARM .....*Abraham Haworth, Esq.*

COPLEY FIELDING

1607 SHIPWRECK.....*J. M. Hetherington, Esq.*

H. GASTINEAU

1608 VIEW IN WALES, WITH RUINS .....*H. G. Crews, Esq.*

P. DE WINT

1609 SALTWOOD CASTLE, KENT .....*Peter Allen, Esq.*

1610 LINCOLN CATHEDRAL .... *James Jardine, Esq.*

COPLEY FIELDING

1611 SOUTH DOWNS..... *David Jardine, Esq.*

1612 ARUNDEL..... *W. H. Houldsworth, Esq., M.P.*

W. L. LEITCH

1613 GULF OF GENOA ..... *J. Macandrew, Esq.*

COPLEY FIELDING

1614 SNOWDON ..... *J. M. Hetherington, Esq.*

W. MÜLLER

1615 ACROPOLIS, ATHENS ..... *Peter Allen, Esq.*

G. BARRET

1616 LANDSCAPE WITH CATTLE ..... *Mrs. Botsford*

C. VACHER

1617 NAPLES, FROM THE VILLA PANSILLIPO ..... *J. A. Bannerman, Esq.*

COPLEY FIELDING

1618 LOCH ETIVE .... *Charles Langton, Esq.*

JOHN LINNELL

1619 MORNING—PEASANTS WITH CATTLE..... *Jesse Haworth, Esq.*

SAM BOUGH, R.S.A.

1620 Brough Sands ..... *Joseph Broome, Esq.*

S. PROUT

1621 Strasburg ..... *J. M. Hetherington, Esq.*

JAMES HOLLAND

1622 Rialto, Venice ..... *Dr. Lloyd Roberts*

W. MULLER

1623 Xanthus Valley ..... *W. Carver, Esq.*

1624 The Harpagus Tomb, Lycia ..... *Sir Joseph Heron*

COPLEY FIELDING

1625 Fairlight Downs..... *H. Tootal-Broadhurst, Esq.*

1626 Sunset at Sea ..... *Mrs. Hugh Mason*

W. HUNT

1627 A Warm Berth ..... *Peter Allen, Esq.*

COPLEY FIELDING

1628 Near Dunster (Somersetshire) ..... *Mrs. Hugh Mason*

W. NESFIELD

1629 Falls of the Clyde..... *T. M. Shuttleworth, Esq.*

S. PROUT

1630 The Foscari and Balbi Palaces, Venice ..... *Duke of Devonshire*

LOUIS HAGHE

1631 Brewers' Hall, Antwerp..... *Abraham Haworth, Esq.*

1632 Milan Cathedral ..... *G. W. Moss, Esq.*

DAVID COX

1633 Wreck on the North Coast..... *F. Craven, Esq.*

1634 Heather Gatherers..... *F. Craven, Esq.*

W. NESFIELD

1635 Brancepth Park .....*T. M. Shuttleworth Esq.*

LOUIS HAGHE

1636 Visit of Marguerite of Austria, the Regent of Belgium, to the Audience Chamber of Bruges.....*J. W. Haigh, Esq.*

1637 The Sistine Chapel, Rome ....*R. M. Knowles, Esq.*

DAVID COX

1638 The Missing Flock .....*F. Craven, Esq.*

1639 Beeston Castle ....*F. Craven, Esq.*

1640 Gravel-pits.....*F. Craven, Esq.*

ELIJAH WALTON

1641 A Wind-storm in the Engadine .....*G. F. Hinshelwood, Esq.*

W. HUNT

1642 Devotion.....*H. P. Gilbey, Esq.*

LOUIS HAGHE

1643 Arnold Defending His Principles in the Consistory at Rome .....*James Jardine, Esq.*

DAVID COX

1644 The Welsh Funeral.....*F. Craven, Esq.*

C. CATTERMOLE

1645 Grace Before Meat.....*F. Craven, Esq.*

1646 The Knight and the Falconer.....*J. Orrock, Esq.*

W. J. NASH

1647 Eton from the Meadows .....*Peter Allen, Esq.*

DAVID COX

1648 Bolton Abbey .....*H. Tootal-Broadhurst, Esq.*

1649 Milking-time .... *J. Orrock, Esq.*

G. DODGSON

1650 Whitby Abbey .....*J. Orrock, Esq.*

C. VACHER

1651 Lake Scene..... ..... *J. A. Bannerman, Esq.*

DAVID COX

1652 Windsor Great Park..... .....*F. Craven, Esq.*

D. MACLISE, R.A.

1653 The Marriage of Eva and Strongbow...*J. Broughton Dugdale, Esq.*

Richard of Clare, Earl of Pembroke, who bore the nickname of Strongbow, landed in Ireland with a force of fifteen hundred men to assist Dermot, King of Leinster, to recover his dominions, which had been wrested from him in one of the endless civil wars that distracted Ireland. The city of Dublin was taken by surprise, and after the battle, Strongbow was married to Eva, the daughter of Dermot, thus becoming heir to the kingdom of Leinster. (A.D. 1169.)

Green's History of the English People.

H. BRITTAN WILLIS

1654 Cattle in the Highlands..... *R. Peacock, Esq., M.P.*

F. W. TOPHAM

1655 A Zouave Relating his Adventures ... *J. Broughton Dugdale, Esq.*

G. DODGSON

1656 Fête Champêtre ..... *J. Orrock, Esq.*

SAM BOUGH

1657 The Rain Cloud ..... *Joseph Broome, Esq.*

DAVID COX

1658 The Vale of Clwyd..... *F. Craven, Esq.*

D. G. ROSSETTI

1659 Rosa Triplex ..... *Hon. C. W. Mills*

WILLIAM TURNER, of Oxford

1660 PORTSMOUTH ..... *C. E. Lees, Esq.*

DAVID COX

1661 BOLTON PARK ..... *C. F. H. Bolckow, Esq.*

S. PROUT

1662 CAEN ..... *Sir Joseph Heron*

D. G. ROSSETTI

1663 RETURN OF TIBULLUS TO DELIA ..... *F. Craven, Esq.*

P. DE WINT

1664 CORN HARVEST ..... *Peter Allen, Esq.*

W. COLLINS, R.A.

1665 FISHERMAN'S BAY, ISLE OF WIGHT ..... *Peter Allen, Esq.*

DAVID ROBERTS, R.A.

1666 HEIDELBERG ..... *Charles Langton, Esq.*

DAVID COX

1667 THE HUMBER AT HULL ..... *R. R. Ross, Esq.*

S. PROUT

1668 NUREMBERG ..... *Peter Allen Esq.*

JOHN CALLOW

1669 OFF DOVER ..... *Edward Schunck, Esq., F.R.S.*

DAVID COX

1670 BESOM GATHERERS ..... *Peter Allen, Esq.*

COPLEY FIELDING

1671 THE TROSSACHS ..... *C. F. H. Bolckow, Esq.*

S. PROUT

1672 NUREMBERG ..... *Mrs. Botsford*

DAVID COX

1673 HARDWICK HALL ..... *Peter Allen, Esq.*

W. HULL

1674 A YORKSHIRE SCAR ..... *T. R. Wilkinson, Esq.*

A. E. CHALON, R.A.

1675 LADY MACBETH (ACT V.) ..... *Louis Huth, Dsq*

1676 LADY MACBETH (ACT I.) ..... *Louis Huth, Esq.*

J. CRISTALL

1677 AT THE SPRING ..... *H. G. Crews, Esq.*

D. G. ROSSETTI

1678 THE LADY LILITH ..... *W. Coltart, Esq*

SAMUEL PALMER

1679 OXEN PLOUGHING ..... *J. S. Bolton, Esq.*

W. MULLER

1680 A WELSH RIVER ..... *Peter Allen, Esq.*

COPLEY FIELDING

1681 The Mull of Galloway ..... *W. Tattersall, Esq.*

E. DUNCAN

1682 Shiplake-on-Thames..... *G. W. Moss, Esq.*

SCREEN.

DAVID COX.

1683 The Enraged Bull ..... *H. Tootal-Broadhurst, Esq.*

H. BRITTAN WILLIS

1684 Cattle (Mid-day) ..... *Jesse Haworth, Esq*

RICHARD DOYLE

1685 Rose Red and Snow White ..... *W. Long, Esq.*

WILLIAM HUNT

1686 Dead Wood-Pigeon ..... *J. Orrock, Esq.*

JOHN LINNELL

1687 An English Landscape ..... *C. F. H. Bolckow, Esq.*

RICHARD DOYLE

1688 Elves in a Rabbit Warren ..... *W. Long, Esq.*

WILLIAM HUNT

1689 Too Hot !..... *C. F. H. Bolckow, Esq.*

DAVID ROBERTS, R.A.

1690 In the Slave Market, Cairo ..... *Dr. Lloyd Roberts*

W. L. LEITCH

1691 Tower in the Gulf of Salerno ..... *G. W. Moss, Esq.*

WILLIAM HUNT

1692 Bullases and Blackberries..... *J. Orrock, Esq.*

1693 The Shy Sitter..... *J. Orrock, Esq.*

1694 Plums and Flowers ..... *J. Orrock, Esq.*

1695 Girl With Pitcher ..... *J. Orrock, Esq.*

WILLIAM TURNER, of Oxford

1696 View from Bishop's Hill, Gloucestershire ... *James Worthington, Esq.*

G. BARRET

1697 Flight into Egypt ..... *T. R. Wilkinson, Esq.*

W. MÜLLER

1698 Eel Traps at Goring ..... *Peter Allen, Esq.*

E. DUNCAN

1699 Haunt of the Wild-Fowl ..... *Charles Langton, Esq.*

WILLIAM HUNT

1700 Pine Apple and Plums ..... *Jesse Haworth, Esq*

C. STANFIELD, R.A.

1701 Calais Old Pier... .....*Sir Joseph Heron.*

WILLIAM HUNT

1702 Bird's Nest and Primroses ..... *J. Gillott, Esq.*
1703 The Defeat..... *G. W. Moss, Esq.*
1704 Quinces ..... *J. Orrock, Esq.*

W. L. LEITCH

1705 Glen Shee, Aberdeenshire.....*G. W. Moss, Esq.*

J. H. MOLE

1706 A Young Fisherman.....*G. F. Hinshelwood, Esq.*

P. DE WINT

1707 Bolsover Castle ..... *James Worrall, Jun., Esq.*

J. D. HARDING

1708 Château de Monat..... *A. Pilkington, Esq.*

DAVID COX

1709 Asking the Way..... *Peter Allen, Esq.*

WILLIAM HUNT

1710 Portrait of the Artist ..... *H. P. Gilbey, Esq.*

S. PROUT

1711 Rouen ..... *Colonel Sale*

C. STANFIELD, R.A.

1712 Castle of Chillon, Lake Geneva.....*Peter Allen, Esq.*

WILLIAM HUNT

1713 Magnum-bonum Plums ..... *J. Orrock, Esq.*

DAVID ROBERTS, R.A.

1714 Hall of the Abencerages, Granada ..... *Mrs. Hugh Mason*

JOHN LINNELL

1715 River Scene—Sunset ..... *William Agnew, Esq.*

JOHN LEECH

1716 Original Drawing for "Punch" ..... *William Agnew, Esq.*

Small Boy: "Oh, yes, I understand French, because I know that when mamma and papa speak French I am going to have a powder."

WILLIAM HUNT

1717 The Attack..... *G. W. Moss, Esq.*

P. DE WINT

1718 Windsor Castle.....*James Worrall, jun., Esq.*

WILLIAM HUNT

1719 Bird's Nest and Primroses.....*G. W. Moss, Esq.*
1720 Pine Apple, Quince, and Grapes..... *J. Orrock, Esq.*

J. D. HARDING

1721 Royat.....*A. Pilkington, Esq.*

JOHN LINNELL

1722 LANDSCAPE WITH SHEEP..... *J. Broughton Dugdale, Esq.*

DAVID ROBERTS, R.A.

1723 HOUSES OF PARLIAMENT ..... *Sir Joseph Heron*

WILLIAM HUNT

1724 JIM CROW ... . *J. Orrock, Esq.*

S. PROUT

1725 PLACE DE LA PUCELLE, ORLEANS..... *Colonel Sale*

WILLIAM HUNT

1726 THE VALENTINE ..... *H. Tootal-Broadhurst, Esq.*
1727 PEACHES AND GRAPES..... *J. Orrock, Esq.*
1728 THE SCRUB..... *F. Craven, Esq.*
1729 HEAD OF A GIRL ..... *H. P. Gilbey, Esq.*
1730 THE BLESSING..... *J. Orrock, Esq.*
1731 HAWTHORN AND BIRD'S NEST..... *J. Orrock, Esq.*

W. MÜLLER

1732 LAKE TELEMESSUS ..... *W. Carver, Esq.*

JOHN VARLEY

1733 LANDSCAPE ..... *T. R. Wilkinson, Esq.*

WILLIAM HUNT

1734 THE OLD GARDENER..... *James Jardine, Esq*

P. DE WINT

1735 WET MEADOWS ..... *Peter Allen, Esq*

G. SHALDERS

1736 SURREY LANDSCAPE..... *H. G. Crews, Esq.*

WILLIAM HUNT

1737 APPLE BLOSSOM, PRIMROSES, AND BIRD'S NEST ..... *Mrs. Platt*

D. G. ROSSETTI

1738 THE BORGIA FAMILY ..... *W. Coltart, Esq.*

P. DE WINT

1739 RIVER SCENE ..... *J. Orrock, Esq.*

WILLIAM HUNT

1740 READING THE "LEAGUE"..... *Thomas Johnson, Esq.*

DAVID COX

1741 COWS IN A RIVER..... *Peter Allen, Esq.*

W. W. DEANE

1742 INTERIOR OF SEVILLE CATHEDRAL ..... *Mrs. Deane*

COPLEY FIELDING

1743 THE SNOWDON RANGE..... *Abraham Haworth, Esq.*

SIR A. W. CALLCOTT, R.A.

1744 ON THE MEDWAY ..... *C. E. Lees, Esq.*

DAVID ROBERTS, R.A.

1745 BAALBEC.....*W. H. Houldsworth, Esq., M.P.*

W. HULL

1746 VILLAGE STREET SCENE.....*T. R. Wilkinson, Esq.*

S. PROUT

1747 FISHMARKET AT ROME..... *Mrs. Botsford*

A. ELMORE, R.A.

1748 LUCREZIA BORGIA .....*J. E. Taylor, Esq.*

WILLIAM HUNT.

1749 RUSTICS IN A BARN ..... *James Taylor, Esq.*

1750 LILACS AND BIRD'S NEST ..... *D. Thwaites Esq.*

C. STANFIELD, R.A.

1751 BARNBOUGLE CASTLE, ON THE FORTH ..... *Thomas Ashton, Esq.*

WILLIAM HUNT

1752 THE WANDERER .....*J. Orrock, Esq.*

1753 PRIMROSES .....*J. Orrock, Esq.*

JOHN SELL COTMAN

1754 VIA MALA..... *Peter Allen, Esq.*

WILLIAM HUNT

1755 BIRD'S NEST AND MAY BLOSSOM ..... *R. Peacock, Esq., M.P.*

1756 PEACH, PLUM, AND GRAPES ..... *G. W. Moss, Esq.*

S. PROUT

1757 VENICE .....*J. Orrock, Esq.*

WILLIAM HUNT

1758 DEVOTION..... .....*F. Craven, Esq.*

1759 ROSES .....*Abel Buckley, Esq.*

DAVID COX

1760 PLUMSTEAD MARSH ..... *James Worrall, jun., Esq.*

C. STANFIELD, R.A.

1761 ISCHIA... ..... *Jesse Haworth, Esq.*

SAMUEL PALMER

1762 HARVEST FIELD ..... *R. R. Ross, Esq.*

J. M. W. TURNER, R.A.

1763 LAND'S END .....*F. Craven, Esq.*

1764 LLANGOLLEN ..... *C. F. H. Bolckow, Esq.*

1765 BRIDGE OVER THE MOSELLE..... ....*C. E. Lees, Esq.*

1766 THE RIGHI ..... *J. E. Taylor, Esq.*

1767 SWISS PASS —EFFECT OF STORM ..... *Jesse Haworth, Esq.*

1768 WHITEHAVEN ..... *Walter Dunlop, Esq.*

1769 THE RIGHI .....*J. E. Taylor, Esq.*

1770 ST. MICHAEL'S MOUNT.....*R. Leake, Esq., M.P.*

1771 LUCERNE.....*Abraham Haworth, Esq.*

J. M. W. TURNER, R.A.—*continued.*

1772 CHAIN BRIDGE OVER THE TEES ..... *Abraham Haworth, Esq.*
(Engraved in Whittaker's "History of Richmondshire.")

1773 THE RIGHI ..... *W. G. Cassells, Esq.*

1774 WARWICK CASTLE ..... *Abraham Haworth, Esq.*

1775 LAKE OF LUCERNE ..... *J. M. Hetherington, Esq.*

1776 THE RHINE ABOVE SCHAFFHAUSEN ..... *C. E. Lees, Esq.*

1777 TEMPLE OF MINERVA, CAPE COLONNA ..... *A. Pilkington, Esq.*

1778 LOWESTOFT ..... *Rev. C. J. Sale*
(Engraved in the "England and Wales" series.)

DAVID ROBERTS, R.A.

1779 SALAMANCA ..... *E. Atkinson, Esq.*

D. G. ROSSETTI.

1780 DANTE MEETING BEATRICE ..... *Dr. Lloyd Roberts*

DAVID COX.

1781 WARWICK CASTLE ..... *W. H. Houldsworth, Esq., M.P.*

FREDERICK WALKER, A.R.A.

1782 BEE-HIVES ..... *Mrs. W. A. Turner*

1783 THE WELL ..... *William Agnew, Esq.*

1784 THE HARBOUR OF REFUGE (sketch) ..... *William Agnew, Esq.*

1785 PORTRAIT OF THE ARTIST ..... *J. G. Marks, Esq.*

1786 LILIES ..... *Mrs. Graham*

G. BARRET

1787 SUNSET ..... *A. Macmorran, Esq.*

1788 TIMBER WAGGON ..... *J. Orrock, Esq.*

FREDERICK WALKER, A.R.A.

1789 OUR VILLAGE ..... *Mrs. Graeme Ogilvie*

1790 MUSHROOMS ..... *Humphrey Roberts, Esq.*

D. G. ROSSETTI

1791 HESTERNA ROSA ..... *F. Craven, Esq.*

"Quoth tongue of neither maid nor wife,
To heart of neither wife nor maid,
Lead we not here a jolly life
Betwixt the shine and shade?"

"Quoth heart of neither maid nor wife,
To tongue of neither wife nor maid,
Thou waggs't, but I am worn with strife,
And feel like flowers that fade."—*Henry Taylor.*

FREDERICK WALKER, A.R.A.

1792 THE NEW BOY ..... *David Jardine, Esq.*

1793 THE CHAPLAIN'S DAUGHTER ..... *Birket Foster, Esq.*

WILLIAM HUNT

1794 BIRD'S NEST AND APPLE BLOSSOM ..... *Adam Dugdale, Esq.*

W. HULL

1795 THE VILLAGE INN ..... *T. R. Wilkinson, Esq.*

ROYAL JUBILEE EXHIBITION, MANCHESTER.

FINE ARTS SECTION.

ARCHITECTURAL DRAWINGS.

	CHARLES HEATHCOTE	
1796	Salford Baths (Interior)	*The Architect*
	J. D. MOULD	
1797	Chapel at Clitheroe	*The Architect*
	SIR G. GILBERT SCOTT, R.A., d.	
1798	St. George's Church, Doncaster	*J. Oldred Scott, Esq.*
	DECIMUS BURTON, d.	
1799	Coghurst	*Miss Wood*
	J. D. MOULD	
1800	Chapel at Little Hulton	*The Architect*
1801	Chapel at Edenfield	*The Architect*
	H. TATTERSALL, d.	
1802	Industrial Schools, Swinton	*The Manchester Board of Guardians*
	DECIMUS BURTON, d.	
1803	Charing Cross Hospital	*Miss Wood*
1804	United Service Club	*Miss Wood*
	J. D. MOULD	
1805	Chapel at Swinton	*The Architect*
	SIR G. GILBERT SCOTT, R.A., d.	
1806	Houses, Broad Sanctuary, Westminster	*J. O. Scott, Esq.*
	PROFESSOR C. R. COCKERELL, d.	
1807	St. George's Hall, Liverpool: Tympanum	*Mrs. Cockerell*

SMITH, WOODHOUSE, and WILLOUGHBY

1808 Stephenson Memorial Hall, Chesterfield ..... *The Architects*
1809 Doctor's House, Urmston ..... *The Architects*

WEIGHTMAN, HADFIELD, and GOLDIE, d.

1810 Boreatton Park, Salop..... *C. Hadfield, Esq.*
1811 St. John's, Salford, and St. Chad's, Manchester... *C. Hadfield, Esq.*

SYDNEY SMIRKE, R.A. d.

1812 Carlton Club ..... *Sydney Smirke, Esq.*
1813 Royal Academy ..... *Sydney Smirke, Esq.*
1814 Pavilion for Prince Albert ..... *Sydney Smirke, Esq.*

GOLDSMITH and SON

1815 Scottish Provident Buildings ..... *The Architects*
1816 Houses, Victoria Park, Manchester ..... *The Architects*

HADFIELD and SON

1817 Corn Exchange Buildings, &c., Sheffield..... *C. Hadfield, Esq.*

B. FERREY, d.

1818 Wynnstay, N. Wales..... ..... *B. E. Ferrey, Esq.*
1819 St. Stephen's Church and Schools, Westminster ... *B. E. Ferrey, Esq.*

WEIGHTMAN and HADFIELD d.

1820 St. Marie's, Mulberry Street, Manchester..... *C. Hadfield, Esq.*

GOLDSMITH and SON

1821 House at Bowdon ..... *The Architects.*

HADFIELD and SON

1822 Great Northern Hotel, Leeds ..... *C. Hadfield, Esq.*

SIR CHARLES BARRY, R.A., d.

1823 New Palace, Westminster (River Front)
Exors. of the late E. M. Barry, Esq.

REDFERN and SAWDAY

1824 Poor Law Offices, Leicester ..... *The Architects*

HADFIELD and SON

1825 Convent Church, Sisters of Notre Dame ..... *C. Hadfield, Esq.*

SIR M. DIGBY WYATT, d.

1826 Post Office, Calcutta (Interior of Hall) .... *Lady Wyatt*
1827 Post Office, Calcutta (Exterior)..... *Lady Wyatt*

SIR CHARLES BARRY, R.A., d.

1828 New Palace, Westminster (Land Front as designed.
Approach to Westminster Bridge) ..... *C. Barry, Esq.*

GRAYSON and OULD

1829 Mersey Railway—Hamilton Square Station..... *The Architects*

SIR CHARLES BARRY, R.A., d.

1830 HALIFAX TOWN HALL.....*Executors of the late E. M. Barry, Esq.*

1831 NEW PALACE, WESTMINSTER, NEW PALACE YARD (AS DESIGNED). *C. Barry, Esq.*

GRAYSON and OULD

1832 BRADFIELD RECTORY, READING..... *The Architects*

1833 OFFICES, CASTLE STREET, LIVERPOOL..... *The Architects*

EDWARD WALTERS, d.

1834 FREE TRADE HALL, MANCHESTER..... *Messrs. Barker and Ellis*

1835 GROUP OF MANCHESTER WAREHOUSES..... *Messrs. Barker and Ellis*

TRAVIS and MANGNALL, d.

1836 WATTS'S WAREHOUSE, MANCHESTER ... *Messrs. Mangnall & Littlewoods*

GRAYSON and OULD

1837 WOOLTON CHURCH, LIVERPOOL ..... *The Architects*

1838 HOUSE AT CHESTER..... *The Architects*

1839 MERSEY RAILWAY—JAMES STREET STATION..... *The Architects*

E. M. BARRY, R.A., d.

1840 WYKEHURST, SUSSEX ..... *Exors. of late E. M. Barry, Esq.*

G. E. STREET, R.A., d.

1841 NORTH-WEST PORCH, BRISTOL CATHEDRAL ..... *A. E. Street, Esq.*

1842 NEW LAW COURTS DESIGNED FOR THE THAMES EMBANKMENT *A. E. Street, Esq.*

W. H. THORP

1843 QUARRYDENE, WESTWOOD, LEEDS ..... *The Architect*

J. DOBSON. d

1844 BILLIARD ROOM, BEAUFRONT CASTLE ..... *Miss Dobson*

E. M. BARRY. R.A., d.

1845 CITY TERMINUS AND HOTEL, CANNON STREET, LONDON... *C. Lucas, Esq.*

C. F. HAYWARD

1846 DUKE OF CORNWALL HOTEL, PLYMOUTH ..... *The Architect*

MANGNALL and LITTLEWOODS

1847 FISH MARKET EXTENSION, MANCHESTER ..... *The Architects*

ISAAC HOLDEN and SON

1848 CATHEDRAL AT LILLE (DESIGN FOR)..... *The Architects*

C. F. HAYWARD

1849 THAMES EMBANKMENT SCHEME ..... *The Architect*

WALTER MILLARD

1850 COTTAGES, ARDSLEY, HERTS ..... *The Architect*

J. W. and R. F. BEAUMONT

1851 NUTFIELD, REIGATE, SURREY ..... *The Architects*

CHARLES HEATHCOTE

1852 BATHS, SALFORD ..... *The Architect*

SPEAKMAN and CHARLESWORTH, d.

1853 TOWN HALL, MANCHESTER (COMPETITION DESIGN) *The Committee of the Clarendon Club*

C. F. HAYWARD

1854 NATURAL SCIENCE SCHOOLS, HARROW—ENTRANCE..... *The Architect*

1855 DITTO DITTO DITTO GARDEN VIEW ... *The Architect*

CHARLES HEATHCOTE

1856 COMMERCIAL UNION INSURANCE OFFICES ..... *The Architect*

F. C. EDWARDS

1857 CHAPEL, POULTON-LE-FYLDE CEMETERY..... *The Architect*

CHARLES BARRY

1858 DULWICH COLLEGE GREAT HALL ..... *The Architect*

1859 DITTO EXTERIOR ..... *The Architect*

F. C. EDWARDS

1860 HOUSE AT KNUTSFORD ..... *The Architect*

J. NIXON HORSEFIELD

1861 CLAREMONT, BOURNEMOUTH ..... *The Architect*

CHARLES BARRY

1862 BURLINGTON HOUSE, NEW; PICCADILLY ..... *The Architect*

1863 DULWICH COLLEGE (6 SKETCHES, PORTIONS) ..... *The Architect*

GEORGE CORSON

1864 FOXHILL MANSION, LEEDS..... *The Architect*

CHARLES BARRY

1865 ROYAL EXCHANGE, LONDON, ROOF TO QUADRANGLE..... *The Architect*

GEORGE CORSON

1866 BOARD SCHOOLS, PATELY BRIDGE ..... *The Architect*

CHARLES BARRY

1867 CLUMBER HOUSE, THE RESIDENCE OF THE DUKE OF NEWCASTLE (AS RESTORED) ..... *The Architect*

GEORGE CORSON

1868 WAREHOUSE, BRADFORD..... *The Architect*

HORTON and BRIDGFORD

1869 GOTHIC VILLA, BOWDON ..... *The Architects*

CHARLES BARRY

1870 CLUMBER HOUSE, THE GREAT HALL ..... *The Architect*

DAVID BRANDON

1871 Bayham Abbey, Sussex ..... *The Architect*

MANGNALL and LITTLEWOODS

1872 Presbyterian Church, Salford ..... *The Architects*

MEDLAND TAYLOR

1873 St. John's, Stand Lane ..... *The Architect*

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1874 Penrith Church, Cumberland ..... *The Architects*

DAVID BRANDON

1875 Sidbury Manor, Devon ..... *The Architect*

GEORGE CORSON

1876 Municipal Offices, Leeds ..... *The Architect*

C. F. HAYWARD

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GEORGE CORSON

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EDWARD SALOMONS

1879 Art Treasures Exhibition, 1857 (Picture Gallery) ..... *The Architect*

1880 Art Treasures Exhibition (Interior of Great Hall)... *The Architect*

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1881 Ganton Hall ..... *The Architects*

W. H. CROSSLAND

1882 Royal Holloway College, Egham, Water Tower ..... *The Architect*

1883 Town Hall, Rochdale, Staircase ..... *The Architect*

HORTON and BRIDGFORD

1884 39, Piccadilly, Manchester ..... *The Architects*

W. H. CROSSLAND

1885 Holloway Sanatorium, Recreation Hall and Tower ... *The Architect*

1886 Town Hall, Rochdale ..... *The Architect*

OCTAVIUS HANSARD

1887 Garbridge, Appleby ..... *The Architect*

1888 Marshall and Snelgrove's Premises, Oxford Street, London, *The Architect*

W. H. CROSSLAND

1889 Copley Church (Interior)..... *The Architect*

FISHER and HEPPER

1890 Ganton Hall ..... *The Architects*

J. OLDRED SCOTT

1891 Slough Church, Bucks (Interior) ..... *The Architect*

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1892	St. James's, Buxton	*The Architect*
1893	St. Luke's, Halliwell	*The Architect*
	J. OLDRID SCOTT	
1894	Cathedral, Falkland Islands	*The Architect*
1895	Lahore Cathedral	*The Architect*
	GOLDIE, CHILD, and GOLDIE,	
1896	Church of thr Sacred Heart, Hall Lane, Liverpool	*The Architects*
	J. OLDRID SCOTT	
1897	St. Augustine's Church, Croydon	*The Architect*
	GOLDIE, CHILD, and GOLDIE	
1898	Church of St. James, Spanish Place, London	*The Architects*
1899	St. James's, Spanish Place (Interior)	*The Architects*
	J. OLDRID SCOTT	
1900	Church, West Ham, Essex	*The Architect*
	GOLDIE, CHILD, and GOLDIE	
1901	Church of St. Peter, Phibsborough, Dublin	*The Architects*
1902	Residence, S.J., Farm Street, W.	*The Architects*
	HORTON and BRIDGFORD	
1903	Baths, Southport	*The Architects*
	GEORGE TRUEFITT	
1904	St. George's, Tufnell Park, Tower and Spire	*The Architect*
	W. H. THORP	
1905	St. James's Hall, Leeds (New Wing)	*The Architect*
	SMITH, WOODHOUSE, and WILLOUGHBY	
1906	Houses, Heaton Chapel	*The Architects*
	JOHN P. SEDDON	
1907	Aberystwith College before the Fire	*The Architect*
	GEORGE TRUEFITT	
1908	Brooks's Bank, Manchester	*The Architect*
	J. LANGHAM	
1909	A Doctor's House, Swinton	*The Architect*
	ARTHUR EDMUND STREET	
1910	St. Paul's Church, Worcester	*The Architect*
	T. HEYGATE VERNON	
1911	Whittlebury, Northamptonshire	*The Architect*
	MEDLAND TAYLOR	
1912	Blair Hospital, Bolton	*The Architect*

WILLIAM DOUBLEDAY

1913 Cobden Coffee House ..... *The Architect*

T. HEYGATE VERNON

1914 Crewe Green Schools, Cheshire ..... *The Architect*

LAWRENCE BOOTH

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1916 Salford Union Hospital ..... *The Architect*

ARCHIBALD MACPHERSON

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LAWRENCE BOOTH

1918 Headquarters, Drill Hall 2nd Manchester, R.V. ... *The Architect*

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1920 Wakefield Town Hall, Council Chamber ..... *The Architect*

WILLIAM DOUBLEDAY

1921 Congregational Chapel, Heath Town, Wolverhampton *The Architect*

THOMAS E. COLLCUTT

1922 Premises, Oxford-street, London ..... *The Architect*

1923 House at Hayes, Kent ..... *The Architect*

WILLIAM DOUBLEDAY

1924 Staffordshire Bank ..... *The Architect*

G. AITCHESON

1925 Staircase, 1, Grosvenor Crescent ..... *The Architect*

1926 Dining-room, 52, Prince's Gate ..... *The Architect*

GOLDSMITH and SON

1927 Houses, Cheadle Hulme ..... *The Architects*

LAWRENCE BOOTH

1928 Warehouse, Piccadilly, Manchester ..... *The Architect*

G. AITCHESON

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A. H. DAVIES-COLLEY

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JOHN BROOKE

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1955 Butler Museum and Classrooms, Harrow ..... *The Architect*
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JAMES STEVENS

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2001 Nicholls Hospital, Manchester ..... *The Architect*
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T. G. JACKSON

2004 House, 2, Kensington Court ..... *The Architect*
2005 The Schools, Oxford Quadrangle..... *The Architect*
2006 Brighton College, Gateway Tower, & Boarding Houses ...*The Architect*

JAMES BROOKS

2007 St. Andrew's, Willesden Green (N.E. View) ..... *The Architect*

R. KNILL FREEMAN

2008 British Chapel, Moscow ..... *The Architect*

ALFRED WATERHOUSE, R.A.

2009 Assize Courts, Manchester..... *The Architect*

T. G. JACKSON

2010 The Schools, Oxford, with Building for Non-Collegiate Students .... *The Architect*

R. KNILL FREEMAN

2011 Bryerswood, Windermere ..... *The Architect*

ALFRED WATERHOUSE, R.A.

2012 Central Technical Institution, Kensington ..... *The Architect*

R. KNILL FREEMAN

2013 St. Peter's, Farnworth.. .....*The Architect*

ALFRED WATERHOUSE, R.A.

2014 Eaton, near Chester ..... *The Duke of Westminster*
2015 Staircase, Owens College ..... *The Architect*
2016 Owens College, Manchester ..... *The Architect*

JAMES BROOKS

2017 St. Andrew's, Plaistow (S.E. View) ..... *The Architect*

ALFRED WATERHOUSE, R.A.

2018 National Liberal Club, Thames Embankment ..... *The Architect*

JAMES BROOKS

2019 Church of Transfiguration, Lewisham (N.E. View) ... *The Architect*
2020 St. John Baptist, Kensington (Interior East) ..... *The Architect*

ALFRED WATERHOUSE, R.A.

2021 Natural History Museum, South Kensington ..... *The Architect*

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2022 Manchester and Salford Bank, Salford ..... *The Architect*

JAMES BROOKS

2023 St. Mary, Woolwich (S.E. View) ..... *The Architect*

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SIR HORACE JONES

2025 Tower Bascule Bridge ..... *The Architect*

2026 Tower Bascule Bridge ..... *The Architect*

2027 Three London Markets—Meat, Poultry, Fish ..... *The Architect*

R. KNILL FREEMAN

2028 Bolton Infirmary ..... *The Architect*

J. W. and R. F. BEAUMONT

2029 Sir Ralph Pendlebury Memorial Buildings, Stockport *The Architects*

2030 Ducie Avenue Board Schools, Manchester..... *The Architects*

R. KNILL FREEMAN

2031 St. Augustine's, Tonge Moor..... *The Architect*

2032 South Shore Church, Blackpool ..... *The Architect*

2033 St. Mark's, Worsley ..... *The Architect*

HENRY ROSS

2034 St. Peter's Church, Accrington..... *The Architect*

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2035 Royal Exchange, Manchester (Exterior)..... *The Architects*

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MEE and STEINTHAL

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J. B. FRASER

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WORTHINGTON and ELGOOD

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J. B. FRASER

2046 St. Augustine's, Leeds (Interior) ..... *The Architect*

G. D. OLIVER

2047 Grammar School, Carlisle ..... *The Architect*

PERKIN and BULMER

2048 Offices, &c., York ..... *The Architects*

W. EMERSON

2049 St. Mary's, Brighton ..... *The Architect*

2050 All Saints', Cannington, Allahabad ..... *The Architect*

2051 Muir College, Quadrangle ..... *The Architect*

2052 Muir College, Allahabad ..... *The Architect*

WILLIAM YOUNG

2053 Holmewood House, Hunts ..... *The Architect*

PERKIN and BULMER

2054 Cottages, Whitby ..... *The Architects*

W. EMERSON

2055 Takhtsingji Hospital, Bhavnagar, India ..... *The Architect*

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GOLDSMITH and SON

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WILLIAM YOUNG

2059 Municipal Buildings, Glasgow ..... *The Architect*

PENNINGTON and BRIDGEN

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2061 Hean Castle, Tenby ..... *The Architects*

2062 Royal Eye Hospital, Manchester ..... *The Architects*

MEE and STEINTHAL

2063 Artists' Homes, Hampstead ..... *The Architects*

WILLIAM YOUNG

2064 Municipal Buildings, Glasgow ..... *The Architect*

PENNINGTON and BRIDGEN

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2072 Harris Free Library and Museum, Preston, View from Lancaster Road ..... *The Architect*

2073 Ditto, View from Church Street ..... *The Architect*

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MAXWELL and TUKE

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H. B. SANG

2076 Mantelpiece and Side Wall, Stratheden House, Hyde Park (for M. Henry, Esq.) ..... *The Architect*

2077 Conservatory Arcade, Bylaugh Park, Norfolk (for H. Evans Lombe, Esq.) ..... *The Architect*

MAXWELL and TUKE.

2078 Jubilee Exhibition, Manchester (Exterior) ..... *The Architects*

2079 Ditto ditto (Interior) ..... *The Architects*

W. H. BRAKSPEAR

2080 Parish Church, Bowdon ..... *The Architect*

2081 Ditto ditto ..... *The Architect*

2082 Exchange, Blackburn ..... *The Architect*

H. B. BARE

2083 Drawing-room Decoration ..... *The Architect*

2084 Dining-room Decoration ..... *The Architect*

2085 Decorated Shop Front, in Glazed Terra Cotta ..... *The Architect*

W. H. BRAKSPEAR

2086 Bridgewater Church Restored ..... *The Architect*

2087 Wesleyan Chapel, Bowdon ..... *The Architect*

2088 Ditto ditto ..... *The Architect*

SCULPTURE.

IN THE NAVE.

GEORGE TINWORTH

2089 THE RELEASE OF BARABBAS (a panel in terra cotta)..... *Doulton & Co.*

In this panel Pilate, who occupies the centre of the piece, is pronouncing sentence on our Lord, who is delivered to be crucified, and is being led away bound by the soldiers in attendance. Directly behind the Saviour, the Virgin Mary, and the Apostle John appear as spectators, together with some of their friends. A Roman officer is speaking to another spectator on the left of St. John, and on the extreme right the Apostle Peter, in an agony of remorse, is restrained from approaching the Lord by another soldier. On the right and left of Pilate are attendants holding the water and towel that he may wash his hands, and so disown complicity in the guilt of what he has done, while Pilate's wife, with a Roman companion, stands behind. On the left, Barabbas is released, amid the congratulations of the bystanders; and persons of various nationalities appear behind. To the left is a Roman watchman, denoted by the bells upon his dress; and a negro is attempting to speak to Barabbas, and is addressing a soldier with a view to obtaining the desired interview. The place of the trial is set forth by the architectural embellishments in the background, and a broken vessel and a fallen capital in front are introduced as symbolising the decay of the old dispensation. A palm branch is lying on the ground, recalling to memory the recent triumphal entry of the Lord into Jerusalem. The texts to which reference is made are the following:—

"For of a truth, against thy holy child Jesus, whom thou hast anointed, both Herod and Pontius Pilate with the Gentiles and the people of Israel were gathered together, for to do whatsoever thy hand and thy counsel determined before to be done." (Acts iv., 27. 28.)

"But as for you, ye thought evil against me, but God meant it unto good, to bring to pass, as it is this day, to save much people alive." (Gen. xlv., 5.)

"When Pilate saw that he could prevail nothing, but that rather a tumult was made, he took water, and washed his hands before the multitude, saying, I am innocent of the blood of this just person: see ye to it." (Matt. xxvii., 24.)

"When their judges are overthrown in stony places, they shall hear my words, for they are sweet." (Psalm cxli., 6.)

"For if I make you sorry, who is he that maketh me glad, but the same which is made sorry by me?" (2 Cor. ii., 2.)

"Though a sinner do evil an hundred times, and his days be prolonged, yet surely I know that it shall be well with them that fear God, which fear before him; but it shall not be well with the wicked, neither shall he prolong his days, which are as a shadow; because he feareth not before God" (Eccles. viii., 12, 13.)

T. BROOK, R.A.

2090 A Moment of Peril (bronze equestrian group).....*Purchased by the President and Council of the Royal Academy, under the terms of the Chantrey Bequest, and lent by them.*

IN THE MAIN AVENUE.

S. ONSLOW FORD

2091 The Right Hon. W. E. Gladstone, M.P. .. .. *The Artist*

COUNT GLEICHEN

2092 Marquis of Abergavenny (life size) ..... *The Artist*
2093 Hero (life size) ..... *Ditto*
2094 The Right Hon. Earl of Beaconsfield (life size) ..... *Ditto*
2095 Scotch Fisherwoman (life size) .... *Ditto*

E. ROSCOE MULLINS

2096 Bless Me, even Me also, Father..... *The Artist*
2097 Autolycus (marble) ..... *Ditto*

H. CALDER MARSHALL, R.A.

2098 Stepping Stones (bronze)..... ..... *The Artist*

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Ashworth, Edmund & Sons, Bolton	775	173
Askham Bros. and Wilson, Limited, Sheffield	632	148
Association of Carlsbad Glass Manufacturers, Carlsbad, Bohemia	201	69

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Astbury & Co., Manchester	649	151
Astley and Tyldesley Coal and Salt Co., Limited (The) Tyldesley	813	179
Autotype Co., London		198
Avery, William & Son, Redditch	1137	215

B

Babcock and Wilson Co. (The), Glasgow	665	154
Bacon, John & Co., Manchester	184	66
Badden, William & Son, Oldham	350A	91
Bagley, Francis, Coventry	328	86
Bagley and Wright, Oldham	774	173
Bagnall & Co., Manchester	853	184
Bailey, W. H. & Co., Salford	667	154
Bailey, W. H. & Co., Salford	701	161
Bailey, W. H. & Co., Salford	357	92
Bailey, W. H. & Co., Salford	392	100
Bailey, W. H. & Co., Salford	575	136
Bailey, W. H. & Co., Salford	520	128
Bailey and Williamson, Manchester	1127	214
Bailey, W. H. & Co., Salford	1119	213
Baker, Charles L. & Co. Manchester	604	143
Baker, George, Sevastopoulo, Khan, Constantinople	249	77
Baker, Joseph & Sons, London	663	153
Bapty, Samuel Lee, F.R.G.S., Brockley, Kent.		198
Barker & Co., Limited, Stockport	7	44
Barlow, H. B. & Co., Manchester	596	141
Barlow, Samuel & Co., Limited, Manchester	783	175
Barlow & Jones Limited, Manchester	37	47
Barningham & Co., Limited, Manchester	554	132
Baron and Hogarth, Kendal	532	130
Barstow, Jacob, Pontefract	931	195
Barton, James & Co., Manchester	156, 1162	63
Barton, James & Co., Manchester	162	63
Bashall, William, & Co., Preston	8	44
Bates, Arthur, Manchester	408	103
Bauer e Antonibere, Piazza Frescobaldi, Florence, and Nove Provincia, Venezia	264	80

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Bayree and Son, Burnley	61	50
Beckett, William, Heywood, near Manchester	950	197
Bedford Lemere & Co., London		198
Bedford, William, London, N.		198
Bell Brothers, Limited, Middlesbrough	822	180
Belt, Annie, West Hartlepool	1139	215
Bengal Silk Co. Limited, Calcutta	313	84
Bennett, J. M. and Sons, Manchester	145	61
Bennett, Reuben, Manchester	230	75
Benton & Johnson, London	286	83
Bentley & Ford, Longton, Staffordshire	418	105
Bentley and Jackson, Bury, near Manchester	516	127
Bergue, De & Co., Limited, Manchester	391	100
Berkeley, H. B. and Willis, Wm., London		198
Berry, L., Chorley, Lancashire		199
Beyer, Peacock & Co., Manchester	637	149
Bierfreund, Lor., Odense, Denmark	25	46
Billcliff, Joshua, Manchester		199
Bilsland & Co., Edinburgh	887	188
Binns Brothers, Manchester	277A	82
Bindley, Thomas R. B. & Son, Smithwick	877	187
Birch, William, Manchester	427	106
Birch, G. & Co., Salford	570	135
Blackman Air Propeller Ventilating Co., Limited, London	506	125
Blackwood, J. & Co., London	922	193
Blair, James T., Manchester		199
Blakeley, E. F. & Co., Liverpool	688	157
Boehm, R. & Co., Manchester	551	132
Bolckow, Vaughan, & Co., Limited, Middlesbrough-on-Tees	600	141
Bolton Iron and Steel Co., Limited (The), Bolton	629	148
Bond and Riley, Manchester	17	45
Bonnet, C. J. & Co., Les Petits Fils de, Lyons, France	315	84
Boosey & Co., London	265	80
Borg, Michael, Strada Reale, Valetta, Malta	336	87
Bradburn, Thomas & Sons, Birmingham	463A	117
Bradbury & Co., Limited, Oldham and Manchester	473	119
Bradford, Thomas & Co., Salford	412	104
Bradford Manufacturing Co. (The), Bradford, Yorkshire	389	99
Bradshaw, George Bagnall, Bowdon, Cheshire		199

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Bradwell, Tom & Co., Congleton	318	85
Bratby and Hinchliffe, Manchester	511	126
Bratby and Hinchcliffe, Manchester	921	193
Brehmer, Augustus, London	452	114
Bristol Wagon Works Co., Limited (The), Bristol	89	53
Briggs, Thomas, Darwen	91	53
Briggs, Priestley and Sons, Laister Dyke	157	63
Briggs, Thomas, Manchester	214	70
Briggs & Co., Manchester	339	87
British and Foreign Bible Society, Manchester	182	66
British Alizarine Co., Limited (The), London	736	167
Brooke, Joseph and Sons, Hipperholme, near Halifax	105	55
Brookes, Warwick, Manchester		199
Brown, J. Milman, Isle of Wight		199
Brown-Westhead, (T.C.), Moore & Co., Staffordshire	175	65
Brown and Backhouse, Liverpool	989A	157
Broome, Hallworth and Foster, Manchester	58	50
Brooke, Simpson, and Spiller, Limited, London	732	167
Broxburn Oil Co., Limited (The), Glasgow	750	170
Brown, William, Manchester	844	183
Brown, Robert & Co., Manchester	855	184
Broadbent & Son, Manchester	865	185
Broadhurst & Co., Bradford, Manchester	881	188
Broadbent, Thomas & Sons, Huddersfield	401	101
Brooke, Edward & Sons, Huddersfield	898	190
Brown-Westhead, (T. C.), Moore & Co., Staffordshire Potteries	901	190
Browett, Lindley & Co., Salford	518	128
Broughton, James & Co., Manchester	439	110
Broadbent, Robert & Sons, Stalybridge	440	110
Brooks, Samuel, Manchester	443	111
Brundrit & Co., Runcorn	907	191
Brunner, Mond, & Co., Limited, Northwich	816	180
Bruton, J. E., Isle of Man		199
Bryant and May, Limited, London	919	193
Buckley, William & Co., Sheffield	607	144
Buckley and Crossley, Dukinfield, Manchester	540	130
Burroughs, Wellcome, & Co., London	724	165
Burroughs, Wellcome & Co., London	928	194
Burys & Co., Limited, Sheffield	576	137

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Bury, H., Manchester	364	94
Buser and Keiser, Laufenbourg and Liestal, Switzerland	171	65
Butterley Co. (The), Alfreton, Derbyshire	668	154
Butterworth Brothers, Limited, Newton Heath, Manchester	547	131
Butenberg, Heusch & Co., Aix-la-Chapelle, Germany	158	63
Butterworth and Dickinson, Burnley	425	106
Byrne, William Joseph, Richmond, Surrey		199
Byrom, Robert, Delph, near Manchester	161	63

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Cæsar, Henry, Knutsford, Cheshire	676	155
Caldicott, J. & T. P., Coventry	328	86
Calvert, John & Sons, Manchester	545	131
Cameron, John, Salford	405	102
Cammell, Charles & Co., Sheffield	569	134
Carter, Alfred & Co., Liverpool	109	56
Carr, James & Sons, Manchester	160	63
Casartelli, Joseph, Manchester	712	163
Casebourne & Co., Limited, West Hartlepool	909	191
Cash, J. & J., Coventry	328	86
Cassell & Co., Limited, London	52	49
Cayzer, Irvine & Co., Glasgow	195	68
Century Guild of Artists, London	225	74
Chadwick, James & Bro., near Bolton	24	46
Chadwick, James and Brother, Bolton	769	172
Chanot, G. A., Manchester	242	77
Charlesworth, S. & Co., Oldham	477	120
Chatwood, Samuel, Bolton	525	129
Chatwood, Arthur Brunel, Prestwich	239	76
Chatwood's Patent Safe and Lock Co., Limited, Manchester	592	140
Cheavin, George, Boston, England	936	195
Cheetham, John & Sons, Hyde, near Manchester	209	70
Chiswick Soap Co., Chiswick	848	184
Chorlton, William & Co., Manchester	331	86
Chorlton, Isaac & Co., Salford	63	51
Christy, W. M. & Sons, Limited, Manchester	20	45

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Christy, Thomas & Co., London	787	176
Chubb's Lock and Safe Co., Limited, London and Manchester.	272A	81
Chubb & Sons' Lock and Safe Co., Limited, Manchester	591	140
City Wood Engraving Co., (The), (Farrell and Jepson), Manchester	1140	215
Claviger Cycle Co., Limited (The), Manchester	75	52
Clarke, Archer, London		200
Clarke, John T., Manchester	125	58
Clark, Bunnett, & Co., Limited, Manchester	508	126
Clark, Robert Ingham & Co., London	755	170
Clark, Robert Ingham & Co., London	755	170
Clayton, James and Joseph, Manchester	937	195
Clayton, Marsdens & Co., Limited, Halifax	325	85
Clegg, Neville, Altrincham	220	71
Clegg, Margaret, Oldham	528	129
Cliff, Joseph & Sons, Wortley, near Leeds	904	191
Coats, J. and P., Paisley	773	173
Cobbett, W. Willson, London	556	132
Cochran, P. & Co., Liverpool	923	194
Cockshoot, Joseph & Co., Manchester	87, 87A	53
Cockill, John & Sons, Liversedge, Yorkshire	403A	102
Colas, Laurent, Ardennes, France	74	52
Cole, James, Manchester	275	81
Coleby, Thomas, Manchester	496	124
Colledge Roy & Co., Manchester	864	185
Collett, J. M. & Co., Gloucester	823	181
College of Agriculture (The) Downton, near Salisbury	812	179
Collinge, W. & J. S., Burnley	227	75
Collier, John, Birmingham		200
Committee of Section III.	779	173
Committee of Section III.	716	164
Committee of Section III.	781	174
Common, Andrew Ainslie, F.R.S. London		200
Constantine, T. J., London	678	156
Cooke, William & Co., Leeds	62	50
Cooke, W. H. & Co., Manchester	93	54
Co-operative Wholesale Society, Limited, Manchester, Leicester, and Heckmondwike, Yorks	151	62
Co-operative Wholesale Society, Limited, Manchester	949A	197

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Cooper, Corah & Sons, Leicester	170	64
Cooper, Box & Co., London	884	188
Cornbrook Brewery Co., Limited, Manchester	952	197
Courlander, L., Kimberley, South Africa	1132	214
Cowan, W. & B., Manchester	568	134
Cowan, William, Edinburgh	469A	119
Cowburn, Anne, Manchester	90	53
Cowley, John & Son, Hyde, near Manchester	470	119
Cowles Electric Smelting and Aluminium Co., London	801	178
Cowlishaw, Nicol & Co., Limited, Manchester	338	87
Craven, Dunnill & Co., Limited, near Ironbridge, Shropshire	121	58
Craven Brothers, Limited, Manchester	483	120
Craven Brothers, Limited, Manchester	366A	94
Crewdson, Crosses & Co., Limited, Manchester	13	44
Credenda Cold-drawn Seamless Steel Tube Company (The), Birmingham	492A	122
Critchley, Thomas, Blackburn	910	192
Crighton & Sons, Manchester	442	111
Crook, John & Sons, Preston	192	67
Crookes, Henry, A.R.S.M., M.S.T.E., London	757	171
Crooke, W., Edinburgh		200
Crompton, Edward, Manchester	243	77
Crosfield, Joseph & Sons, Warrington	838	183
Croft Granite, Brick, & Concrete Co (The) Leicester	895	189
Croft Granite, Brick, and Concrete Co. (The), Croft, near Leicester	687	157
Crowley, John & Co., Manchester	624	147
Crossley Brothers, Limited, Openshaw	355	92
Crossley Brothers, Limited, Openshaw	484	121
Crossley Brothers, Limited, Openshaw	1347A	246
Crossley, William, Failsworth, near Manchester	373	95
Crossland, William, Miles Platting, Manchester	449	113
Crompton, Thomas, Ashton, near Wigan	462A	116
Cullerne, C. B. & Co., Liverpool	824	181
Currie, William & Co., Edinburgh	883	188
Curwen, J. & Sons, London	133	59
Cussons, George, Manchester	134	59
Curtis, Sons & Co., Manchester	383	97

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Dacca Twist Co. (The)—Rylands and Sons, Limited, Manchester and London	49, 50	49
Dale, William, Manchester	110	56
Dalton, Barton & Co., Coventry	328	86
Davenport, J. & Co., Manchester	231, 232	75
Davis and Sneade, Liverpool	683	156
Davis, Joseph & Co., London	705	162
Davis, George E., Manchester	927	194
Davis, Alfred A., London, W.C.	1134	215
Davies, E. W., Old Trafford		200
Dawson (Dan), Brothers, Huddersfield	737	167
Dawson, Arthur George, Macclesfield	1112	212
Decorators' Supply Co., (The) Manchester	253	78
Dee Oil Co. (The), Manchester	751	170
Dempster, Robert & Sons, Elland, Yorkshire	479	120
Dempster, Robert & John, Newton Heath, Manchester	601	142
Devoge & Co., Manchester	372	95
Dick, R. & J., Glasgow	469	118
Dickinson, William & Sons, Blackburn	360	93
Director General, Ordance Survey, Southampton		200
Distillers' Co., Limited (The), Edinburgh	940	196
Dixon, John & Sons, Steeton, *via* Leeds	537	130
Dixon, Charles & Co., Blackburn	797	177
Dixon, Henry & Sons, London		201
Dixon, Isaac & Co., Liverpool	1347D	246
Dobson & Barlow, Bolton	382	97
Doulton & Co., London	258	79
Doulton & Co., Manchester	272	81
Doulton & Co., London	702	161
Doulton & Co., London	902	190
Doulton & Co., London	1118	213
Doulton & Co., Manchester	195B	68
Doveston's, Manchester	237	76
Downing & Co., Manchester	472	119
Dowson Economic Gas and Power Co. (The), Limited, London	662	152
Dronsfield Bros., Oldham	387	92
Duffy, M. C. & Son, London	100	55

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Dugdale, John & Sons, Blackburn	489	123
Dunderdale, Wood & Co., Manchester	409	103
Dux, Albert & Co., Salford	56	50

E

Eades, R. E., London	1115	212
East Lancashire Chemical Co. (The), Fairfield, near Manchester	721	165
Ebbw Vale Steel, Iron, and Coal Co. Limited, Monmouthshire,	626	147
Ebner, James F., London	119	57
Eccles, Edmund, Bury, Lancashire		201
Edge, J., Manchester		201
Edwards Bros., Fenton, Staffordshire	102	55
Electric Portable Battery and Gas Igniting Co. (The), Limited, Salford	619	146
Ellam, Jones, and Co., Derby	759	171
Ellerbeck, J. H. T., Walton, near Liverpool		201
Elkington & Co., Manchester	27	46
Elliott, Edminson and Olney, Manchester	141	61
Erlaucht Graf von Harrach'sche Glasfabrik (Count Harrach's Glassworks), Neuwelt, Bohemia, Austria	202	69
Ermen and Roby, Patricroft, Manchester	771	172
Eureka Salt Manufacturing Co., Limited (The), Northwich	836	182
Evans, Sons, and Co., Liverpool	939	196

F

Fairburn and Hall, Manchester	552	132
Fairclough, George, Manchester	862	185
Fahlberg, List & Co., Salbke, Westerhüsen, near Magdeburg	734	167
Farron, Squire, Ashton-under-Lyne	553	132
Faulkner, Robert, London		201
Faulder, Henry & Co., Stockport	492	123
Fawcett, Preston & Co., Liverpool	447	113
Fawcett, Thomas C., Leeds	356	92
Fewster, Thomas & Son, Hull	766	170
Fielding, Robert & Son, Manchester	42	48
Field, J. C. and J., London	752	170
Finlayson, Bousfield & Co., Johnstone, Scotland, and Grafton, United States	168	64

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Firth, Thomas and Sons, Limited, Sheffield	620	146
Fisichella, Antonino, Liverpool	1111	212
Fitton, F. A., and Son, Manchester	531	129
Fleming, A. B. & Co., Limited, Edinburgh	859	184
Fleming, Reid & Co., Greenock	172	65
Follows and Bate, Limited, Gorton, Manchester	504	125
Follows and Bate, Limited, Manchester	703	162
Follows and Bate, Limited, Manchester	1345	245
Follows and Bate, Limited, Manchester	106	55
Forder & Co., Limited, London and Wolverhampton	80	52
Fordsmith, F., Salford	597	141
Fordsmith, Herbert, Manchester	593*	141
Ford-Stanley, William, London Bridge		206
Forsyth Brothers, Manchester	267	80
Foster, James, Manchester	1107	212
Fourness, H. & Co., Manchester	136	59
Frankenburg, Isidor, Salford	888	188
Franklin, F. W., Coventry	328	86
Franklin, G. Carey, Coventry	328	86
Frazer Brothers, Birmingham	65	51
Freeman, Joseph B. & Co., London	758	171
French, Gilbert James, Bolton	35	47
Frictionless Engine Packing Co., Manchester	549	131
Frilli, Antonio, Florence	281	82
Fry, J. S. and Sons, Bristol and London	438	110
Fry, Samuel & Co., Limited, Kingston-on-Thames		201
Furnival & Co., Reddish, near Stockport	454	114

G

Gamble, Jos. C. & Son, St. Helens	819	180
Galloway, John, Manchester	453	114
Gandy Belt Manufacturing Co. (The), Limited, Liverpool	560	133
Gare, Thomas, Stockport	497	124
Garnett, Robert & Sons, Warrington	255	78
Garroway, R. & J., Glasgow	832	182
Garside, H., Manchester	459a	115
Gaskell, Deacon & Co., Widnes	815	180

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Geldart & Co., Liverpool	851	184
Gemmell and Harter, Manchester	48	49
Gibson, J. P., Hexham		201
Giddings and Dacre, Manchester	150	62
Gilchrist, Percy C., Westminster, S.W.	800	177
Gillott, Joseph & Sons, Birmingham	31	47
Gillott, Joseph & Sons, Birmingham	487	121
Glass Decoration Co., Limited (The), London	177	65
Glenfield Co., Limited, Kilmarnock	650	152
Glover, Walter T. & Co., Salford	582	138
Goadsby & Co., Manchester	762	171
Godbold, Hy. Jas., St. Leonards-on-Sea		202
Goodall, E. & Co., Manchester	226	75
Goodbrand and Holland, Manchester	432	107
Goodbrand & Co., Manchester	406	102
Gossage, William & Sons, Widnes	872	186
Gotz, J. R., London		202
Grafton, F. W. & Co., Manchester	44	49
Gratrix, Samuel, Jun., Manchester		202
Gray, Smith, & Bennitt, Wath-upon-Dearne, Yorkshire	847	183
Great Rocks Lime & Stone Co. (The), Dove Holes, near Stockport	900	190
Green, T. A., Grassmere, Westmorland		202
Green, Edward & Son, Manchester and Wakefield	521	128
Greenall & Co., Manchester	422	106
Greenbank Alkali Works Co., Limited (The), St. Helens	831	182
Greenhalgh, John & Sons, Oldham	446	113
Greenwood, Wm., Manchester		202
Greer, Mrs. Annie, Pendleton, Manchester		202
Gresham and Craven, and The Vacuum Brake Co., Limited, Manchester	621	146
Griess, J. Peter, Ph. D., F.R.S., Burton-on-Trent	741B	168
Griffiths Brothers & Co., London	763	171
Gridley & Co., London	876	187
Grimshaw Brothers, Clayton, Manchester	786	175
Guest, Thomas & Co., Manchester	954	197
Guetta, Guiseppe, Venice	263	80
Guetta, Guiseppe, Da Mula's Palace, Murano and Venice	1136	215
Gunther, William, Oldham	577	137

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Hacking & Co., Bury	371	95
Hadley, Geo., Lincoln		202
Hadwen, John & Sons, near Halifax	320	85
Hadfield's Steel Foundry Co., Sheffield	602	142
Hahlo, Hermann J., Manchester	12	44
Hall, Ralph & Co., Manchester	57	50
Hall, John & Co., Manchester	288	83
Halliday, R. & Co., Middleton, near Manchester	681	156
Halliday, Joseph & Co., Newton, Manchester	935	195
Hamblet, Joseph, West Bromwich	114	57
Hammersley, William & Co., Leek	329	86
Handyside, Andrew & Co., Limited, Derby	579	137
Hannay & Co., West Gorton, Manchester	949	196
Hanson, Scott, & Co., Stockport	215	71
Harden Star & Sinclair Fire Appliance Co., Limited, Manchester	710	163
Hardman & Holdens, Manchester	746	169
Hardman & Co., Manchester	747	169
Hargreaves, William, Manchester	241	76
Harling and Todd, Burnley	433	107
Hart, David & Co., London	585	139
Harrington, J. & Co., Coventry	197	69
Harrison, F. J. & Co., Limited, Leicester	729	166
Harrison, George King, Stourbridge	894	189
Harrison, Mc Gregor & Co., Leigh, Lancashire	362	93
Harrison, Walter H., Manchester		202
Harrison, R. W. & Co., Blackburn	465A	117
Harris, J. F. & G., Finsbury, London, E.C.	1126	214
Haslam, John & Co. Limited, Manchester	10	44
Haslam Foundry and Engineering Co., Limited (The), Derby	493A	124
Hattersley, Thomas Sands, Manchester	146	62
Haviland & Co., Paris	261	80
Haworth, Richard & Co., Manchester	18	45
Hayward, Thomas & Co., Manchester	262	80
Hayward, W. Scott & Co., Manchester	1138	215
Hazlehurst & Sons, Runcorn	849	184
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Heaton, Ralph & Sons, Birmingham	379	96
Heap, Joshua & Co., Limited, Ashton-under-Lyne	471	119
Heenan and Froude, Manchester	417	105
Heighway & Son, Manchester	247	77
Hembry, B. & Co., Manchester	1106	211
Henderson, A. L., London		202
Henshaw and Loebell, Limited, Manchester	277	82
Henshaw & Co., Manchester	278	82
Henry, A. & S. & Co., Manchester	54	50
Hepplestone, Thomas, Manchester	147	62
Hepworth Iron Co. (The), Hazlehead, near Sheffield	98	54
Her Majesty's Postmaster-General	216A	71
Hertz, Peter, Copenhagen, Denmark	285	83
Heyde, J. Bennett Von der, Manchester	474	119
Heywood, John, Manchester	218	71
Heywood, John, Manchester	722	165
Heywood, John, Manchester	129	59
Heywood, John, Manchester	577B	137
Hick, Hargreaves, & Co., Bolton	358	92
Higham, James, Newton Heath, Manchester	1102	211
Higham, Joseph, Manchester	1133	214
Higson, John, Blackburn	843	183
Hill, Arden & Co., Birmingham	688A	157
Hind and Lund, Preston	482	120
Hind and Lund, Preston	420	105
Hinde & Son, Birmingham	510	126
Hindle, Norton & Co., Oldham	354	92
Hodgkinson, P. M., Stalybridge	428	106
Hodgkins, Margaret, Withington, near Manchester	1128	214
Hodgkinson & Co., Limited, Manchester	509	126
Hogg, J. H., Kendal		203
Hogg, Henry & Son, Congleton	327	85
Hohensausen & Co., Manchester	745	169
Holland, William & Sons, Manchester	3	43
Holland, William & Sons, Manchester	154	63
Holden and Brooke, Salford	555	132
Hollins Mill Co. (The), Manchester	19	45
Holroyd & Scott, Bradford	59	50

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Holt, William & Sons, Manchester	5	43
Hopkinson, J. & Co., Huddersfield	610	144
Horne, W. C., London	451	114
Horrocks, John & Son, Manchester	448	113
Horrocks & Co., Ashton-under-Lyne	461A	116
Horrockses, Miller & Co., Preston	36	47
Horrockses, Miller & Co., Preston	188	66
Horsfall and Bickham, Pendleton	574	135
Houghton, George & Son, London		203
Howard, James and Frederick, Bedford	627	147
Howard and Bullough, Accrington	437	110
Howards & Sons, Stratford, E.	792	176
Howell & Co., Sheffield	628	147
Howorth, James, M.S.A., Farnworth, near Bolton	499	124
Hughes & Young, Manchester	195A	68
Hughes, E. Griffiths, Manchester	546	131
Hulme and Lund, Manchester	507	126
Hulse & Co., Salford	468	118
Hunter, Joseph & Co., Manchester	224	74
Hyde, Robert & Co., near Stalybridge	530	129

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Ickelheimer, Karl, Market Erbach, Bavaria	1129	214
Ince Forge Co., Wigan	647	151
Ingham, John, Sale, Cheshire		203
Ingham, John ann Sons, Thornton, near Bradford	460A	116
Inman and International Steamship Co., Limited, Liverpool	193	67
Ipsen Terra Cotta and Fine Art Pottery (The), Copenhagen and London	183	66
Irvin and Sellers, Preston and Liverpool	458B	115

J

Jackson, Fred. E. & Co., Manchester	426	106
Jackson, Fred. E. & Co., Manchester	9	44
Jacobson, Nathaniel, Manchester	210	70
Jagger, E. & Co., Oldham	616	145
Jazowski, J. L., Liverpool	289	83
Jeffrey & Co., London	251	78

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Jessop, William and Sons, Limited, Sheffield	366	94
Jewsbury & Brown, Manchester	919A	193
Johnson, Richard, and Nephew, Manchester	564	134
Johnson, William, Leeds	673	155
Johnson, Jabez, Son, Allsop, & Co., Manchester	16	45
Johnson, Richard, Clapham, and Morris, Manchester	195C	68
Johnson, Matthey and Co., London	802	178
Johnson, John and Co., Liverpool	918	193
Johnston, John L., London	947	196
Johnson, G. J., and I. Watts, Hale, Altrincham		203
Jones, John, Manchester		203
Joseph and Gluckstein, Victoria West, South Africa	1135	215
Jowett, William M., Manchester	929	194
Junction Iron Works Co., Limited, Newton Heath, Manchester	396	100

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Kay Brothers, Stockport	794	176
Kaye, Anthony R. & Son, Huddersfield	828	181
Keay, E. C. and J., West Bromwich	682	156
Kearns, Allan & Co, Manchester	26	46
Keene, Richard, Derby		203
Keighley, George, Burnley	435	107
Keighley Timber and Saw Mills Co., (The,) and Planing, Moulding, Turning, and Steam Joinery Works, Keighley, Yorkshire	120	58
Kendall and Gent, Manchester	464	117
Kendal, Milne, & Co., Manchester	254	78
Kendal, Milne & Co., Manchester	1347B	246
Kenyon, William & Sons, Dukinfield	535	130
Kensington School of Art Embroidery, London	204	69
Kerr and Hoegger, Manchester	776	175
Kershaw, Joseph & Co., Hollinwood, near Manchester	869	185
Kershaw and Swindells, Macclesfield	330	86
Kershaw, Abraham and Son, Bradford, Yorkshire	460B	116
Kershaw, Joshua & Son, Bolton	538	130
Kilvert, N., and Sons, Manchester	839	183
King, Frederick & Co., Limited, Belfast	920	193
Kneeshaw, Lupton & Co., Liverpool	892	189

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Knowles, Samuel & Co., near Bury	47	49
Kühn, B., Manchester	735	167
Kurtz, A. G. & Co., St. Helens	825	181

L

Lachenal & Co., London	274	81
Lamb, James, Manchester	252	78
Lang, Leon, Manchester	41	48
Lancashire and Yorkshire Productive Society, Limited (The), Littleborough, near Manchester	163	64
Lancashire Felt Co., (The), Limited, Denton, near Manchester	208	70
Lancashire and Cheshire Telephone Exchange Co., Limited	217	71
Lancashire and Yorkshire Railway Co., Manchester	640	152
Lancashire and Yorkshire Railway Co., Manchester	635	150
Lancaster and Tonge, Manchester	407	103
Lange, Paul, Liverpool		203
Lauder, Archibald, Glasgow	941	196
Laverine Chemical Co. (The), Manchester	891	190
Lawson, T. W., Manchester	511A	127
Lawton, J. A. & Co., Liverpool	78	25
Lawrence, Thomas & Son, Brackwell, Berkshire	896	192
Laycock, William & Sons, Keighley, Yorkshire	562	137
Learoyd, S. Huddersfield	221	71
Leclerc, Mercier, Vve., Paris	213	70
Leech Brothers and Hoyle, Manchester	140	60
Lee, George and Sons, Limited, Wakefield	166	64
Lee, Arthur H., Bolton	238	76
Lee and Hargreaves, Manchester	6	43
Lee Spinning Co. (The), Manchester	385A	99
Lee and Hunt, Nottingham	481	120
Lees, Asa & Co., Limited, Oldham	488	122
Leek Embroidery Society, Leek	340	88
Leeds Forge Co., Limited, Leeds	630	149
Leigh, John W., Northenden, Manchester		203
Leroy, F. & Co., Manchester	548	131
Levinstein, I. & Co., Manchester	742	169
Levi, Samuel Harris, London	1114	212
Lever, Brothers, Warrington	873	189

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Leveson and Sons, Manchester	92	54
Lewis and Allonby, London	317	85
Liebig's Extract of Meat Co., Limited, London	938	196
Liebig's Wine Co., London	942	196
Light, James & Son, Liverpool	870	186
Lilley, H. L. & Co., Manchester	913	196
Linlithgow Oil Co., Limited (The), Edinburgh	748	186
Livesey, Henry, Limited, Blackburn	395	100
Lloyd, Henry Fleetwood, Liverpool	77	52
Lloyd and Lloyd, Birmingham	651	157
Locke and Son, Manchester	273	81
Lofiego. Gino, Turin, Italy	181	66
Longford Wire, Iron, and Steel Co , Limited (The) Warrington	66	51
London and Manchester Reflector Co., Manchester	138	60
London and County Photographic Co., London	218A	71
London and County Photographic Co., London	577A	148
London and Counties Tea Co. (The), Manchester	943	196
London Flower Girl Mission	1124	213
London and County Photographic Co., London		203
London Stereoscopic and Photographic Co., Limited, London		203
Lord Brothers, Todmorden	361	93
Lovibond, Joseph W., Salisbury	704	168
Lowcock, Arthur, Limited, Shrewsbury	414	104
Lowe, David & Sons, Edinburgh	686	162
Lowe, Charles & Co., Reddish	739	169
Lugard, J. A., London		204
Luke and Spencer, Limited, Manchester	463	116
Lumb, James, Elland, Yorkshire	541	130
Lyons, Joseph, Kilburn, London	1122	213
Lyons, H. and J., Manchester	127	58
Lysaght, John, Limited, Bristol	685	157

M

Macintosh, Charles & Co., Manchester	885	188
Macpherson, Donald & Co., Manchester	761	171
Macniven and Cameron, Edinburgh	122	58
Madeley, David, Manchester	376	96
Maden, James H., Manchester	1121	213

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Magnesium Metal Co., Patricroft, Manchester	804	178
Main, R. and A., Glasgow	95	54
Main, Mrs., London		204
Mallabone, John, London	196	69
Mallet, John and Son, Bath	284	83
Manchester Photographic Society, Manchester		204
Manchester Art Museum (The Committee of the), Manchester	68	51
Manchester Amateur Photographic Club, Manchester		204
Manchester Creamery, Broughton	675	155
Manchester and District Edison Electric Light Co., Limited (The), Manchester	1347	246
Manchester Water Meter Co., Limited (The), Manchester	595	141
Manchester, Sheffield, and Lincolnshire Railway Co., Limited (The), Manchester	641	150
Manchester, Sheffield, and Lincolnshire Railway Co., Limited (The), Manchester	643	150
Manchester Electric Supply Co., Limited, Manchester	484A	121
Manchester Aniline Co., Manchester	738	167
Manchester Ship Canal Company, Manchester	190	67
Mandleberg, J. & Co., Manchester	880	187
Mann, G. & Co., Leeds	458	115
Mansfield, Edwin and Sons, Manchester	671	155
Mansell, G. M., Manchester	117	57
Mapplebeck, John Wilkes & Co., Birmingham	550	131
Marriott, Henry & Co., Manchester	2	43
Marriott, Henry & Co., Manchester	393	100
Marsden, John, Manchester	118	57
Marwick, W. and M., Edinburgh	493	124
Mark, John, Manchester	290	83
Margerison, Joshua & Son, Preston	842	183
Marshall, James, Glasgow	944	196
Mason, John, Macclesfield	322	85
Massey, B. and S., Openshaw, Manchester	423	106
Mather & Platt, Manchester	384	98
Mather and Platt, Manchester	664	154
Matthews and Yates, Manchester	498	124
Maw & Co., near Ironbridge, Shropshire	103	55
McCorquodale & Co., Limited, London	458A	115
McConnel & Co., Limited, Manchester	22	45

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McDougall, Brothers, Manchester	726	166
McFarlane, William, Heywood, near Manchester	780	174
McFarlane, Strang & Co., Limited, Glasgow	672	155
McIntyre, Hogg, & Co., Manchester	21	45
McKechnie and Duncan, St. Helens	808	178
McKellen, S. D., Manchester		204
McLintock and Sons, Barnsley	167	64
McMullen, H. & Son, Hereford	79	52
McMurdo, James, Manchester	485	121
McNaught & Co., London	81	52
McNaught, John and William, Rochdale	399	101
Mellor, William, Manchester	897	190
Merchant, William and Sons, Manchester	178	66
Merck, C., Darmstadt, Germany	788	176
Merieux and Beaulieu fils, Limoges, France	152	62
Merrin, D. Alexander, Manchester	124	58
Meyer, Enrico & Co., Milan, Italy	423	85
Mills, Samuel, Manchester	211	70
Milligan, J. and Son, Buxton	319	85
Millar, Adam & Co., Glasgow	706	162
Mills, Edgar C., Manchester	403	102
Millward and Cryer, Manchester	795	177
Milnes, E. D., & Brother, Manchester	796	177
Milner, James C., Manchester		204
Milner's Safe Co, Limited, Manchester	598	141
Minton, R. R. & Co., Liverpool	767	170
Mitchell, William and Son, Manchester	235	76
Mitchell & Co., Limited, Bury	533	130
Model Printing Press Co., (The), London	455	114
Moir, Richard & Co., Accrington	777	175
Mole, Robert and Sons, Birmingham	283	83
Monk and Newell, Ruabon, North Wales	94	54
Montani, Ettore, Rome	291	84
Moorhouse, Sidney & Co., Stalybridge	544	131
Moore, Samuel and Son, Manchester	128	59
Morris, George, Norwich	86	53
Morris & Co., London	257	79
Morris, Little & Son, Doncaster	727	166
Morton, William Scott, Tynecastle, Edinburgh	250	77

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Morgan, Lomas & Co., Blackley, near Manchester	926	194
Morgan and Wright, York	946	196
Morton, Thomas Henry, M.D., Sheffield		204
Moser, Ludwig, Carlsbad, Bohemia	180	66
Moser, Edward, Leeds	388	99
Moseley, David & Sons, Manchester	879	187
Mostyn Coal and Iron Co. (The), Mostyn, North Wales	809	179
Mottershead & Co., Manchester	791	176
Mottershead & Co., Manchester	720	164
Mottershead & Co., Manchester	723	165
Moulton, George, Manchester	397	100
Mudd, James & Son, Manchester		204
Mudie, C. J., Liverpool and Manchester	198	69
Muller, Franz, Bonn, near Rhine, Germany	713	164
Murray, David, Manchester	246	77
Musgrave, John and Sons, Limited, Bolton	445	113
Muspratt, James & Sons, Widness	820	180

N

Nairn, M. & Co., Kirkcaldy, Scotland	88	53
Nasmyth, Wilson & Co., Limited, Patricroft, near Manchester	523	129
Nasmyth, Wilson & Co., Limited, Patricroft, near Manchester	611	144
Nasmyth, Wilson & Co., Limited, Patricroft, near Manchester	642	150
Neill, John, Manchester	460	115
Nestle, Henri, London	948	196
Neufeld, L., Berlin	269	80
Newall, Henry and Son, Manchester	782	173
Newton, Chambers & Co., Limited, near Sheffield	588	139
Nicholson, J. O., Macclesfield	341	88
Nightingale, Bros., Paterson, New Jersey, U.S.A.	368	95
Noar, T. and L., Manchester	1346	245
Nordenfelt, Thorsten, M.Inst.C.E., London	614	145
Novello & Son, Manchester	130	59

O

Oates and Green, Horley Green, Halifax	99	54
Oldham, Alexander & Sons, Dukinfield	646	151
Oliver, Robert & Co., Manchester	871	186

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Ollivant & Botsford, Manchester	287	83
Ollivant and Botsford, Manchester	1116	212
Ontario Pump Co., Toronto, Canada	669	154
"Onward" Publishing Office, Manchester	123	58
Orme & Sons, Manchester	248	77
Orme & Sons, Manchester	1347c	246
Ormerod, John & Sons, Castleton, near Manchester	562	133
Osler, F. & C., Birmingham	256	79
Osler. Fand. C., Birmingham and London	768a	170
Oxley, William, Manchester	772	175
Owen, Joseph & Sons, Manchester	82	52

P

Padgett, John Howarth, Northwich	826	181
Pakeman, William, Stockport	756	172
Palmer, Revd. Henry James, M.A., Ashton-under-Lyne		205
Parker, Joseph Walker & Co., Chester	805	178
Parkinson, Henry & Co., Latchford, Warrington	875	186
Parkinson, Thomas, Blackburn	513	127
Parton, Alfred, Birmingham	733	167
Patent Exhaust Steam Injector Co., Limited (The), Manchester	365	94
Patent Grinding and Polishing Machine Co. (The), Birmingham	429	107
Patent Heald and Eyelet Machine Co. (The), Manchester	450b	114
Patent Paraffin Gas Lighting Co., Limited, Glasgow	660	152
Paton, J. C. & Co., Manchester	850	184
Patteson, J. and H., Manchester	250a	78
Paul et Prosper, Henry, Paris		202
Pearn, Frank & Co. Manchester	519	128
Pearsall, James & Co.	326	85
Pearson and Bennion, Leicester	583	138
Pearson & Co., Limited, Manchester	951	197
Pease, Henry & Co.'s Successors, Darlington	434	107
Pentland, Young J., Edinburgh	131	59
Peppè, Thomas Fraser, Arrah, Bengal, India	337	87
Percival, Vickers & Co., Limited, Manchester	199	69
Perkins, George, Manchester	353	92
Perkins, Son, & Barrett, Bradford, Yorkshire	648	151
Perkin, W. H., Ph.D., F.R.S., Harrow	741c	168
Pickles, Robert, Burnley	468b	118

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Pickles, John & Son, Hebden Bridge, near Manchester	465	117
Picksley, Sims & Co., Limited, Leigh, Lancashire	573	135
Pickup. J. H. & Co., Bury	380	96
Pintner, W. J., Lytham	1104	211
Pizzie and Cramp, Coventry	311	84
Platt Brothers & Co., Limited, Oldham	806	178
Platt, Brothers & Co., Limited, Oldham	436	107
Plews, Arthur S., Manchester	15	44
Pochin, H. D. & Co., Limited, Salford	835	182
Pollitt, John S., Manchester		205
Pooley, Henry & Son, Liverpool	584	139
Porritt, Samuel & Sons, near Rochdale	159	63
Port, John, Manchester	589	140
Post Office, Manchester	216	71
Pott, R. and N., London	827	181
Potter, George & Co., Aldershot	245	77
Power Pulley Co., Limited, Manchester	567	134
Preston, John, London	1110	212
Price's, George, Safe, Lock and Engineering Co., Limited, Wolverhampton	599	141
Price's Patent Candle Co., Limited, London	416	105
Price's Patent Candle Co., Limited, London	749	172
Proctor, James, Burnley	494	124
Proctor & Co., London	203	69
Pumphrey, Alfred, Birmingham		205
Pure Silk Manufacturing Co., of Vicenza (The), Vicenza, Italy	332	86
Pursell, W. G. & Co., Leith	833	182

R

Railton, Charles W. and Frank N., Alderley Edge, near Manchester		205
Ratcliff, John and Sons, Leeds	461	116
Ramsbottom, R., Manchester	29	46
Rawlins & Son, Rainhill, Prescot	753	172
Raynor, Joseph & Sons, Oldham	615	145
Reddaway, Frank and Co., Manchester	464A	117
Redfern, James & Son, Manchester	153	62
Reid, Charles. Wishaw, N.B.		205

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Reid, Peter, Pendleton, Manchester	14	44
Rein, F. C. & Son, London	715	164
Renold, Hans, Manchester	594	141
Renshaw, Edward & Co., Manchester	501	125
Rex Bituminous Coal Co., Manchester	719	164
Richmond, H. Scot & Co-, London	222	74
Rigby, W. & E., Bolton	350	91
Riley, John & Sons, Accrington	814	179
Riley, J. H. & Co., Bury	522	128
Robertshaw, James, Manchester	500	125
Robinson, Benjamin, Manchester	953	197
Robinson, Charlotte, Manchester,	229	75
Robinson, H. P., Tunbridge Wells		205
Robinson, Thomas and Son, Limited, Rochdale	466	117
Roberts, Thomas, Manchester	9 0	195
Roberts, John, Manchester	83	55
Robertshaw, Jonathan, Manchester	64	51
Robertson, William, Galashiels, N.B.	155	63
Rodgers, Joseph & Sons, Limited, Sheffield	176	65
Roscoe, Sir Henry E., M.P., F.R.S., Manchester	741	168
Rose, William & Co., Manchester	572	135
Rossendale Printing Co. (The), Manchester	39	48
Ross-Murray, Robert N., Kinnahaird, Strathpeffer, Ross-shire		206
Roy and Co., Manchester	852	184
Royal National Lifeboat Institution	684	156
Royal National Lifeboat Institution	191	67
Round, Frederick, Southport	857	184
Royle, John J., Manchester	135	59
Royle, John J., Manchester	411	103
Rowe, T. B. and Co., Brentford, London	845	183
Russell, W. & A. C. & Co., Pendleton, Manchester	111	56
Russell, T. R., Liverpool	292	84
Ryder, William, Bolton	378	96
Rylands, Dan, Manchester	512	127

S

Sadler & Co. Limited, Middlesbrough	744	169
Saint Denis Dyestuff and Chemical Co. Limited, St. Denis, Paris	740	168
Salford and Irwell Rubber Co., Limited (The), Salford	882	188

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Salviati, Dr. & Co., London	179	66
Salmon, James, Manchester and London	456A	114
Sampson & Co., Manchester	558	133
Samuel, William H. & Co., Liverpool	868	185
Sandeman, John, Glasgow	860	185
Sanderson, Lewis, Polmadie, Glasgow	514	127
Sands and Hunter, London		206
Sankey Sugar Co., (The), Earlestown	914	192
Sauvy, A., Manchester		206
Saville, James & Sons, Salford	449A	113
Schaffer and Budenberg, Manchester	609	144
Scheu, Charles, Manchester	754	172
Schlesinger, Julius, London	505	125
Schofield, Joshua and Sons, Manchester	359	93
Schuchardt, Dr. Theodor, Goerlitz, Germany	790	176
Schulze, Paul, Manchester	164	64
Schunck, Edward, Ph.D., F.R.S., Kersal, near Manchester	741A	168
Schwabe, S. & Co., Manchester	45	49
Schwabe, Frederick Salis, Rhodes, Middleton		206
Scott, Frederick W., Reddish, near Stockport	571	135
Scott E. J. Blackburn	912	192
Scown & Newling (Mesdames), Manchester	34	47
Seebohm and Dieckstahl, Sheffield	613	145
Seggie, Alex. and Son, Edinburgh	457	115
Self-Winding and Synchronising Clock Co., Limited, (The), London, Liverpool, and Manchester	1131	214
Senior and Brooks, Limited, Manchester	863	185
Sergeant and Walmsley, Manchester	76	52
Shanks & Co., Barrhead, N.B.	107	55
Shannon File Co. Limited, London	132	59
Sharp, Stewart, & Co., Limited, Manchester	467	118
Sharp, Stewart & Co., Limited, Manchester	636	14
Sharratt, William, Droylsden, near Manchester	925	194
Shaw, David & Co., Manchester	858	184
Shaw, Henry & Co., Dukinfield	840	183
Shaw and Connolly, Manchester	707	162
Shaw, Wright, Bredbury, near Stockport	374	95
Sheffield Varnish Co. Limited (The), Oughty Bridge	768	170
Sheldon, John and Richard, Leek	205	70

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Shepherd, Alfred, Brighouse, Yorks	240	76
Shepherd and Ayrton, Manchester	385	99
Shirlaw, A. & Co., Birmingham	670	155
Shorland, E. H., Manchester	677	155
Siegerist, J. C., Manchester	731	166
Silicated Carbon Filter Co., London	933	195
Simon, Henry, Manchester	404	102
Simpson & Godlee, Swinton, near Manchester	55	50
Simpson J. S. and G. F., Brooklyn, E.D., N.Y., U.S.A	475	119
Simon, Henry, Manchester	718	164
Singer, J. W. & Sons, Frome, Somerset	174	65
Singer Manufacturing Co. (The) New York, and Manchester	351	91
Skelton, Geo. and G. W., Manchester	861	185
Slack and Brownlow, Manchester	932	195
Small and Parks, Manchester	410	103
Smart, Arthur & Co., Manchester	404A	102
Smith, Powers, & Co , Coventry	760	171
Smith and Forrest, Manchester	854	184
Smith, James, Manchester	803	178
Smith, Edward & Co., Coalville, Leicestershire	101	55
Smith, Brothers & Co., Paisley	169	64
Smith, Watson, Manchester	234	76
Smith, Watson, Manchester	271	81
Smith, Barber, and Farnworth, Manchester	459	115
Smith and Coventry, Limited, Salford	603	143
Smith, John, Stretford, Manchester	689	157
Stanford, Edward Charles Cortes, Glenwood Dalmuir, Dumbartonshire	793	176
Sneade, William Samuel, Liverpool	503	125
Sneyd Colliery and Brickworks Co., Limited, Burslem	903	191
Society of Chemical Industry in Basle, Switzerland	743	169
Spencer, Samuel, Whitefield, near Manchester	390	99
Spence, Peter & Sons, Manchester	829	181
Spicer, James & Sons, London	126	58
Staffordshire Steel and Ingot Iron Co., Limited (The), Bilston, Staffordshire	622	146
Stanley, William Ford, London	33	47
Stanislas, Julian, Count Ostrorog "Walery," London		206
Statham, George, Coventry	328	86

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Steel Frame Carriage Co. Limited, The, Manchester	85	53
Steel Co. of Scotland, Limited (The), Glasgow	617	145
Steel Nut & Tube Co. (The) Openshaw, near Manchester	515	127
Steiner, F. & Co., Church, Lancashire	53	50
Stephenson, Henry G., Manchester	282	83
Sterne, L & Co., Limited, Glasgow	605	143
Stevens, Thomas, Coventry	370	95
Stevens, Thomas, Coventry	328	86
Stevens & Williams, near Stourbridge	200	69
Steward, Jas. Hy., London		206
Stewart, Andrew and James, Limited, Glasgow	566	134
Stiff & Co., Bristol	915	192
Stirling, William & Sons, Glasgow	173	65
Storey, Brothers & Co., Lancaster	223	74
Storey, Isaac, & Sons, Manchester	645	151
Stott, James & Co, Manchester	618	145
Stott, James & Co., Manchester	144	61
Stott, Joseph, Oldham	412A	104
Stubbs, Joseph, Manchester	394	100
Sutcliffe, H. & Co., Manchester	108	56
Sutcliffe, S. B. & Co., Manchester	142	61
Symonds, Harry, Portsmouth		206
Swailes, John & Sons, Oldham	536	130
Swailes, John & Sons, Oldham	616A	145
Swan and Leach, Manchester	730	166
Swainson, Birley & Co., Preston	23	46
Swift James, & Son, London		206

T

Tangyes, Limited, Birmingham and Manchester	413	104
Tate, Henry & Sons, Liverpool	913A	192
Tatham, John, Iron Works, Rochdale	363	94
Tatham, William, Rochdale	386	99
Taylor, William & Co., London	764	171
Taylor, James & Sons, Bury, Lancashire	878	187
Taylor, Garnett & Co., Manchester	456	114
Taylor, Lang & Co., Limited, Stalybridge	491	123
Taylor, Thomas and John, Oldham and Manchester	587	139

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Teggin, William, Manchester	476	119
Tennants & Co., Manchester	818	180
The Committee of the Boys' and Girls' Refuges and Homes, Manchester	1125	214
The Manx Line, the Isle of Man, Liverpool, and Manchester Steamship Co., Limited, Liverpool, and Douglas, Isle of Man	194	68
The Waterbury Watch Co., Limited, London	1109	212
Thew and Stiebel, Manchester	911	192
Thom, John, Chorley	821	180
Thom, David & Co., Pendleton, Manchester	841	183
Thomas, Peter, Manchester	784	175
Thomas, George & Co., Manchester	11	44
Thomas, George & Co., Manchester	580	138
Thomas, Thos., Cardiff	462	115
Thomasson, J. L., Worcester	104	56
Thompson, W. J., Saint John, New Brunswick, Canada	1113	212
Thompson, Thomas C., Manchester	486	121
Thonet Brothers. Vienna	233	76
Thornliebank Co., Limited (The), Manchester	43	48
Thornton, A. G., Manchester	1101	211
Thornton, J. E., Moss Side, Manchester		206
Threlfall, Richard, Bolton	490	123
Thurstonland Brick and Stone Co., Limited, Brockholes, near Huddersfield	893	189
Thwaites Brothers, Limited, Bradford, Yorkshire	666	154
Tilley, Arthur & Co., London	244	77
Titancrete Co., Manchester	212	70
Titanic Steel Co., Manchester	612	144
Tolley, Harry, Nottingham		207
Tomson, A. S., Coventry	328	86
Tonge, H. Dacre, Croston Towers, Alderley Edge, Cheshire		207
Tonge, John, Styal, Handforth, near Manchester		207
Tootal, Broadhurst, Lee & Co., Manchester	38	48
Tooth & Co., Woodville, near Burton-on-Trent	279	82
Torrance, W. H., Edinburgh	480	120
Towle, A. P. & Son, Manchester	924	194
Trenchmann, Otto, West Hartlepool	899	190
Trotman, Howard, London, N.W.	1130	214

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Troutbeck Park (Westmorland) Green Slate Co., Limited (The), Windermere	905	191
Trustees of the late James Buckley, Manchester	804	182
Tucker, Henry & Co.. Rochdale and Manchester	321	85
Tullis, John & Son, Bridgeton, Glasgow	561	133
Turk, Richard John, Kingston-on-Thames	207	70
Turner & Co.. Manchester	236	76
Turner, M. A. & Co., Sunbury-on-Thames	1103	211
Turner, William, Salford	419	105
Turner Brothers, Spotland, Rochdale	559	133

U

Unbreakable Pulley Co. (The), Manchester	608	144
Union Engineering Co., Manchester	415	104

V

Veitch Wilson, J., Halliday & Co., Bradford, Manchester	866	185
Vessière Ainé, Baccarat, France	1117	213

W

Waddington and Ramsbottom, Manchester	539	130
Wade, Joseph Armytage, Hornsea, near Hull	450	113
Wahliss, Ernest, Vienna, Austria	260	79
Walker and Hall, Sheffield	28	46
Walker, Samuel, Radcliffe, near Manchester	444	112
Walmsley, Charles, Bury	590	140
Walker, William & Sons, Bolton	874	186
Wallwork, Henry & Co., Manchester	352	91
Willan and Mills, Blackburn	369	95
Walker Brothers, Wigan	421	105
Walmsley, Charles, Bury	430	107
Walton, James & Sons, Denton, near Manchester	375	96
Ward, Anthony & Co., Leek	206	70
Wardle, Joshua & Sons, Leek	333	86
Wardle, Thomas, Leek	334	87
Wardle, Thomas, Leek	335	87
Wardle, Thomas, Leek	312	84

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Ward, Edward, F.R.M.S., Manchester	708	163
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Waterhouse, Joseph, Bowdon, Cheshire	40	48
Watson, William & Co., Manchester	46	49
Watson, John, Manchester	116	57
Watson, Robert & Co., Surdah, Lower Bengal	310	84
Waters, J. and E. & Co., Manchester	770	170
Watson, Edward, Fdinburgh	889	188
Watson & Sons, N., London		207
Watts, William, & Son, Manchester		207
Waterside Iron Works Co., Dukinfield, Cheshire	377	96
Watson, Laidlaw & Co., Kingston, Glasgow	400	101
Watkinson, Robert, Salford	578	137
Waterlow & Sons, Limited, London		207
Weatherley, Bros., Bolton		207
Weber, Ch. & Co., Thann, Alsace	778	175
Webster's Patent Aluminium Crown Metal Co., London	807	178
Webb, Joseph & Co., Bury	625	147
Webb, Francis William, Crewe	633	148
Webb, Francis William, Crewe	638	149
Webb, Francis William, Crewe	639	150
Weldon's Chlorine Processes Co., Limited, Westminster	714	164
Wellington, J. B. B., London		208
Wells, A. C., Manchester	661	152
Wenham Co., Limited (The), London	137	60
West Cumberland Iron and Steel Co., Limited, Workington	811	179
West, G., & Son, Southsea, Hants		207
Westray, Copeland & Co., Barrow-in-Furness	510A	126
Whitty, Henry, Liverpool	149	62
White, John & Co., Edinburgh	165	64
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